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Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

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Economic and Social Revolution of Worldwide Importance Being Wrought by American Automobile Builders

YEARS ago a distinguished English writer published a book entitled "The Americanization of England." Today, if living, he could write with still greater emphasis of the Americanization not only of England, but of the world, and largely by the power of the automobile industry as now being developed in Europe by American interests. The movement into Europe of the great leaders in the industry, building new plants in many places or becoming the controlling interest in established plants, marks a revolution of almost incomprehensible extent, both in business and in social advancement.

The automobile has changed the United States. It has created employment for millions of people. It has intensified the activity of the people of this country and vastly increased the power to do business. It has developed outdoor life; it has made mechanics of millions of men, and thus increased their love of mechanical knowledge. It has helped to break down barriers. America is on wheels, and the people of every section are mingling with the people of other sections.

The automobile has made necessary the building of good highways and these highways, penetrating the distant parts of the land, mean the moral, social, educational, religious and material advancement of the people.

The same energy which has been put into the development of the automobile in this country, revolutionizing the business interests of America, is now being thrown with full force into Europe and other parts of the world. Europe will probably be the first to feel the effect of this movement, for with good highways already in existence the developers of the automobile industry there will have an immediate fruitful field for their activities.

As they carry on their advertising campaigns and expand their selling activities they will create new employment, bringing about an advance in wages. Hundreds of thousands of people will be engaged in the building of automobiles, in their repair and management, and as chauffeurs. Inevitably this will lead to a wider knowledge by the people of all parts of Europe of what others are doing, and wages will be forced up to the great advantage not only of the laboring people but of all other classes.

As the people of the Continent begin more generally to motor from one country to another, the hatreds fostered through thousands of years will gradually to a considerable

extent be broken down. Friendships will be formed, business intercourse developed, and there will be a greater readiness to recognize the other man's point of view through seeing eye to eye, and face to face. And what is true of Europe in this respect will be equally true of Mexico, of Central and South America, and eventually of China and India and the Isles of the Sea.

Under the guiding energy of the American manufacturer the automobile is changing the civilization of the world. May it not, indeed, be the forerunner of peace? May not the greater utilization of the motor car so break down the prejudices of one country against another as to hasten the day of the coming of the Prince of Peace on earth? It has often been said that in the wisdom of Heaven the coming of the Christ to bring salvation to mankind was at the psychological time, when Rome through its vast military operations had extended its highways to the then known world. It was by means of these highways that the Gospel was carried from Jerusalem to other lands.

And so the highways which today are being extended throughout the world by the spirit of the automobile industry, will make possible the partial uplifting of the downtrodden of earth, will create employment in one way and another for millions and eventually for tens of millions of underpaid people, will stimulate worldwide business activity and make for human progress in a way which we now can scarcely comprehend.

The automobile and the motor truck have been largely responsible for the great progress of this country during the past ten years. As they have made necessary the building of good highways and thus compelled the advancement of education throughout the country districts, and brought farm life and city life into closer touch, so the same conditions will be brought about, first, throughout Europe, and eventually throughout all the world. Mr. Ford and the General Motors company and other American automobile interests may think of their work abroad solely from the material standpoint of money-making, but so far as the betterment of the world is concerned the profit that accrues to them will be infinitesimally small compared with the benefit to humanity which will come in higher wages as a result of their activities.

And almost equal emphasis might be placed upon the work of aviation and its influence of the near future, disregarding for the moment any consideration of what the more distant years will bring in the further conquest of the air.

THE FEDERAL GOVERNMENT MUST WAGE A BATTLE AGAINST THE MEDITERRANEAN FLY

THE Mediterranean Fly is a menace not merely to Florida or the fruit regions of the South, but to the entire country. Unless checked, this danger could spread to the Pacific Coast and could very seriously lessen the supply of foodstuffs and of citrus and other fruits, all of which are so essential to the country's welfare. It is one of the big problems which the Federal Government must handle on a large scale and without regard to cost involved. Individual states may well make a vigorous and aggressive fight to exterminate the fly wherever it appears, or to prevent its coming into the state; but back of this should be the full power of the Federal Government, through the Department of Agriculture, and no effort should be spared to make the fight a quick and aggressive one.

If this be done, no great harm should result from the Mediterranean Fly in this country. Individual interests, of course, here and there, will suffer; but out of such a fight as ought to be made by the Federal and State Governments there should come some development that will offset the expense of the fight and the loss to individuals.

In the districts in which the Mediterranean Fly has appeared, the regulations made as to how to overcome the menace are exceedingly drastic. No fruit can be allowed to ripen prior to next December, and nearly all vegetables are on the list and cannot be raised this summer or early fall. This means that farmers cannot produce vegetables for their own family needs, a hardship on them which promises great suffering to many farmers, especially the smaller ones.

As this is a fight for the welfare of the nation, the Federal Government ought to make some very liberal arrangement for taking care of this situation in order that farmers who are forced by State and Federal regulation not to raise vegetables may be provided for during this fighting period.

California people have done the wise and generous thing, according to an Associated Press dispatch from Sacramento, which says:

"Florida citrus growers whose crops have been destroyed by the Mediterranean fruit fly should receive Federal indemnity for their unmarketable products during the next two or three years, Governor C. C. Young, representative bankers, agriculturists and transportation officials agreed in a conference here.

"The conference was held in the Governor's office with the purpose of discussing what aid might be extended Florida in her fight against the pest. Commenting on the \$4,250,000 Congressional appropriation made toward eradication of the fruit fly, the conferees agreed that further Federal action should be taken toward indemnifying growers in the stricken area for loss of crops during the next two or three years or until the pest is exterminated."

HOW ONE MAN WAS HELPED

PUBLICATION some weeks since of the poem "Opportunity," written many years ago by Judge Walter Malone, has attracted much attention. A reader who had never seen the poem before writes:

"The sentiment it contains surely ought to buoy up the hopes and aspirations of a lot of weak ones like myself, and it is indeed a privilege to have the opportunity of reading it. I imagine many men have little time or opportunity to read much except the daily paper and the trade journals; personally I feel that this poem came to my attention at a very opportune time in my life, and I have read and reread it several times in the last few weeks. * * * Though at 46 years of age, when I should be at the zenith of my earning power,

prospects are looking pretty dark. Yet I have never admitted that I was whipped; and this poem, coming to my attention just when it did, has strengthened anew my resolution to succeed and helped dispel the feeling of despair that would sometimes arise."

DO YOU KNOW THE SOUTH?

ONCE more the Blue Book of Southern Progress has made its appearance in the form of the 1929 edition, a volume of 326 pages literally packed, jammed, heaped up and running over with facts and figures about the South. It is a veritable gold mine upon which readers and business men generally can draw to an almost endless extent. Recognized throughout all the business circles of the country as the final authoritative statement of the South's resources and progress, this Blue Book has become invaluable. The investor or the investor's agent cannot understand the South or the opportunities which it offers to a man of wealth or the man of moderate means without studying the Blue Book. To the merchants and the manufacturers of the South and of the North alike, it is invaluable. No man can possibly be thoroughly informed about the South without first having studied this Blue Book, which embodies a greater amount of information about the South than can be found anywhere else, the compilation of it being based on the work of the MANUFACTURERS RECORD during nearly 50 years in the gathering and publication of data about the South.

Every school in the South needs it. It should be in every school library and be studied by the students who in it could find a vast amount of information about their individual states and about the South as a whole. Nowhere else can they get so wide a range of knowledge about the South. It should be in every Southern family, in order that the rising generation may know their own country. Hundreds of thousands of young people have gone out of the South to seek employment elsewhere because they have not fully comprehended the extent of the resources of their own section, nor what the South is doing, nor what it offers for future development. These are but a few of the large number of people to whom the Blue Book of Southern Progress should appeal.

SUPPLY AND DEMAND CONTROLLING WHEAT PRICE

SURPLUS wheat production in this and other countries beyond the possibility of finding a consuming market, with the promise of a still greater surplus in the coming crop, has naturally forced the price of wheat to low figures. Against such a condition no government can contend. No action of Congress could possibly control this situation in the light of the enormous production of other countries. As we cannot control the acreage and the yields of other countries, we cannot control the world price of wheat.

Lamentable as the situation may be from the farmer's viewpoint, he alone is responsible for this increase in output. It may be said that the farmer cannot help himself, because his land is suitable for wheat as a rotating crop and as a part of his system of diversified farming. Similar arguments have been used from time to time in regard to cotton production, but Southern cotton growers continue year after year increasing their acreage, and thus often produce beyond the world's consumptive requirements.

Farm legislation of some kind is desirable, but the farmers who expect that some magic wand of Congress can bring higher prices to them regularly, even while they keep on increasing the crop, are not giving the problem sufficient thought. It cannot be done. Other countries with virgin soil

and vast areas are increasing their acreage and their wheat crop.

Wheat is not the only crop that suffers from overproduction, or at any rate from production beyond the present consuming capacity of this country and of the world. The present low prices of grain should not for one moment be charged in the public mind against the Administration. No administration on earth is able completely to alter the law of supply and demand.

POLICY OF THE INTERNATIONAL PAPER COMPANY A STUPID BLUNDER AT BEST

THE International Paper Company and its subsidiary, the International Paper & Power Company, have evidently been making entirely too much money at the expense of the consumers. Grown plethoric to a point where its managers seem to have lost all common sense and business judgment, those organizations have been putting their money freely into the securities of various newspapers on the ground that in doing so they were seeking to enlarge and make secure their market for paper. That is a very poor excuse. If they cannot hold the market for paper without having a financial interest in the papers which are buying their product, the company is evidently finding that competitors can undersell them. But we doubt that this is an excuse which will pass muster with thoughtful people.

Newspapers are peculiar properties. Under no condition should they be under financial obligation to business interests which deal with the public, especially with public utility concerns. The newspaper that cannot be absolutely untrammelled in discussion of every public question, voicing its honest convictions without any thought in the back of the mind of its owners as to what financial influences may think of its position, is tremendously hampered in its work for the good of the public.

In a broad sense a newspaper holds a responsibility to the public quite different from that of any other business institution. It should be entirely uninfluenced in the expression of its opinions on the great economic issues of the day, without regard to friend or enemy. Only in this way can a newspaper render to the public the service which its exalted position demands.

It is true that a newspaper is a business proposition. But it is more than that. It holds a responsibility for helping to guide and mould the thought of its readers far and away greater than any question of actual money-making for itself. The man who enters the newspaper business from the strictly financial motive of making money has but little appreciation of the responsibility of newspaper work.

There have been numerous reasons for the thought on the part of a large number of people that the editorial and the news columns of many papers are to too great an extent influenced by the business department. There ought to be no foundation for such an opinion. The news and editorial columns of any paper dealing fairly with the public should be absolutely free from any influence or domination whatsoever by the business end. The two should be separate and distinct.

The International Paper Company and its subsidiary, the Power Company, have done all public service corporations a very grave injury. They have made millions of people believe that other public service corporations, many of which are entirely free from any effort to control newspapers, must be placed in the same category as that of the International Paper Company and its Power Company; for it matters not how much these companies may protest that it was not their purpose to influence the editorial policies of these papers, the public cannot be made to accept that view.

VINDICATION OF OUR FIGHT AGAINST JADWIN FLOOD CONTROL PLAN

EFFORTS of Congressmen from the Mississippi Valley States, and nationally known engineers, in bringing to the attention of President Hoover and Secretary of War Good the need for a review of the entire flood control problem and in particular a careful analysis of the Jadwin plan to determine accurately its value as contrasted with the plan of the Mississippi River Commission and other suggested plans, culminated last week in the suspending of the award of contracts for the Birds Point-New Madrid (Missouri) setback levee, until the Secretary of War can review the situation. That the position of the MANUFACTURERS RECORD, in vigorously condemning the Jadwin plan of flood control, was justified is impressively proved by the action of the American Engineering Council, which charges in a petition to President Hoover that the present plan of flood control is based on an insufficient study of the engineering and economic phases of the problem.

Because many features of the Jadwin plan appear entirely unsupported by the intelligent opinion of prominent hydraulic and civil engineers of the Nation, and because the technical soundness, effectiveness and economic advisability of many phases of the plan are as yet undetermined, the MANUFACTURERS RECORD has insistently maintained that President Hoover should initiate a thorough and impartial investigation of the plan the Army Engineers have proposed to put under way.

Delay in awarding the contracts for the Missouri floodway project is a step in the right direction, but it does not go far enough. Executive intervention seems imperative. Surely President Hoover will yield to the request for an impartial review of the flood control program, based on petitions presented during the past week by representatives in Congress of nine of the Mississippi Valley States and by the American Engineering Council. There is, in the engineering profession, a marked and general lack of confidence in the plan adopted. Also there is a serious question of condemnation and compensation raised by the property owners in the proposed floodway areas. President Hoover, as Commander in Chief of the Army, can direct and control the sequence of the construction work and therefore should promptly order work deferred on any controversial features until there has been a thorough and impartial review. It will not suffice that the Secretary of War consult with General Jadwin, author of the present plan and Chief of Engineers, and on such one-sided advice base his conclusions and recommendations, but it is necessary that civilian engineers, competent and unprejudiced be named to conduct a thorough review.

Too long has the matter hung fire. The character of the plan is questioned. The Government is about to undertake the expenditure of hundreds of millions of dollars on a plan which numerous prominent engineers believe to be defective. It is too big an undertaking, it involves too greatly the welfare of the Nation, and the safety of the lives and property of the millions of people in the whole Mississippi Valley, to be clouded with reasonable doubt as to its effectiveness, and its justification from an economic standpoint.

THE O'FALLON RAILROAD SUPREME COURT DECISION

THE decision of the Supreme Court in regard to the St. Louis & O'Fallon Railway Company apparently reverses the views of the Interstate Commerce Commission and grants to the railroads the right to have their reconstruction value estimated in place of the figures which have been adopted by the Interstate Commerce Commission; this will bring up many conflicting phases of the whole railroad situation. Even if it is finally decided that this decision is wholly in favor of the railroads in their viewpoint as to valuation, it would be very dangerous for them to undertake to advance their rates on the basis of earning on this increased valuation.

There is widespread belief throughout the country that railroad rates are already too high. Any movement to advance rates would inevitably bring about such a hostility to railroads as to cause restrictive legislation of many kinds to be passed by State Legislatures and by Congress.

The railroads must inevitably accept the fact that the country will not permit higher rates except in rare cases. They must recognize, however much they may hate to do so, that every business has to wipe off from time to time investments which have not proved profitable. As the railroad wiped out of existence the old stage coach and the stage coach owners received no remuneration for being driven out of business, as one improvement and another often wipes out existing investments, so railroad owners and managers must recognize that they cannot escape the inevitable competition forced upon them by water transportation and motor buses and automobiles. They must depend not upon higher rates, but upon the great increase in efficiency which they have developed during the last few years. The spirit of railroad transportation more and more must be improvement in service with an actual decrease in freight and passenger rates.

While this may be regarded as a hardship by the railroads, relatively it is not as great a blow as that which wiped the old stage coaches out of existence. With the developments which are now being made in highway transportation, in the movement of passengers and freight through the air, and the rapid development which will inevitably come about in our water transportation, the railroads will only injure themselves if they attempt, based on this Supreme Court decision, to advance their freight or passenger rates. They may feel they are entitled to earnings on reproduction value, but if they ever undertake to increase their rates to such a point as to secure even for a brief time these increased profits by increased freight rates they will only be sowing the wind, and will inevitably reap the whirlwind of public hostility.

Since the foregoing was written we are glad to see that President Willard of the Baltimore & Ohio has stated that in his opinion the decision would have no immediate effect upon railroad rates, although it would afford a guide to the Interstate Commerce Commission in its effort to fix lawful valuation of the railroads as a basis for the calculation of so-called excess earnings, as provided in the Transportation Act.

With that view of President Willard we fully agree. We are especially glad to see that he takes the ground that it will not result in an advance of rates.

MORE HOTEL ROOM IN FLORIDA

THAT the hotels of Florida are preparing for an expanding tourist business is illustrated in some facts recently given as to the enlargement of two of the leading hotels at Daytona Beach, and now the MANUFACTURERS RECORD is advised that the owner-manager of the George Washington

Hotel at Jacksonville, one of the outstanding hotels in Florida, is preparing to build a 15-story addition for which tentative drawings have been made. With this addition completed, the hotel will have a total of 600 rooms with three additional elevators to be installed, each to run to a roof garden.

THE LAW OBEDIENCE COMMISSION

PRESIDENT HOOVER'S selection of the members of the proposed commission to investigate law obedience will probably give entire satisfaction to the whole country, because there are on this commission men who represent the highest interest of the nation; some who do not believe in the Eighteenth Amendment, and some who do. The prohibition question, however, is only one of the phases of this great issue which will demand the thorough study of the members who have accepted the responsibility for an investigation and a report upon which much of our future welfare will depend. In the organization of this commission President Hoover has rendered a great service to the entire country.

MAKING THE SOUTH A VACATION LAND

EVIDENCE that vacationists and tourists now regard the South as a recreation section in the summer months has developed early in this season and a record influx of visitors from New England, the North and the West is anticipated in almost every Southern State. Of the thousands of visitors, many have traveled in private automobiles or have used passenger buses, and others have gone to Southern places by train, but this year combination rail and motor transportation are offered and visitors will be enabled to see far more of the beauties and attractions of the South than has been the case before.

More than 25 such tours, for instance, have been outlined by the Southern Railway System and are presented in a comprehensive, illustrated pamphlet for the guidance of summer tourists, each trip beginning and ending with a railway journey and the motor stretches running over established state highways. By one, the traveler can run by rail from Washington to Johnson City, Tenn., thence by passenger bus, 116 miles, to Asheville, N. C., and back to Washington by train, by way of Salisbury, N. C. On this trip, the visitor sees the Unaka National Forest, enormous rayon plants and the glorious country along Shell Creek Valley to Elk Park and Cranberry, a section already highly popular as a summer resort. The motor trip takes the traveler over the Appalachian Scenic highway and is a very beautiful and delightful ride.

By another trip, the traveler takes train from Washington to Winston-Salem, and thence by coach through a magnificent stretch of North Carolina to Asheville, and a third route provides rail from Washington to Hickory, N. C., and a circuitous bus ride which also terminates at Asheville, where the train returns the traveler to Washington. Other trips include much of the Mississippi Valley, visits to New Orleans, Jacksonville, Atlanta and other Southern cities; views of such natural wonders as Mount Mitchell, Chimney Rock, Grandfather Mountain, Monticello, the home of Thomas Jefferson, and the beautiful University of Virginia; the Shenandoah National Park, Natural Bridge and the Great Smoky Mountains.

In almost every corner along these routes are attractive and comfortable hotels and boarding houses and clubs; golf links, lakes and rivers and other streams for bathing and boating and fishing, with fine modern highways in every direction.

Overproduction and Price Cutting Undermining Cotton Industry

Discussions at Joint Meeting of Northern and Southern Cotton Manufacturers Reveal Many Suggestions Which Are Applicable to Industry in General in Its Endeavor to Bring About More Stable Marketing Conditions

By HOWARD L. CLARK.

Atlantic City, N. J., May 25.

Questions vital to the whole cotton textile industry in the United States were discussed at the joint convention in Atlantic City of the American Cotton Manufacturers Association, representing Southern mill interests, and the National Association of Cotton Manufacturers, composed of mill owners of New England and other sections. During the series of meetings which closed today at the Hotel Traymore problems of marketing and over-production, and its attendant evils of pernicious price cutting, were discussed with a frankness that left no one in doubt as to the intentions of the leaders in the industry to leave no stone unturned in their effort to bring about more stable conditions.

Very little mention was made in open sessions of the convention of the recent labor troubles in some of the Southern mills. No official action was taken on the subject and even the report of W. D. Anderson of the Public Relations Committee of the Southern manufacturers was accepted with apparent indifference by the body as a whole. Opinions expressed privately indicate that many manufacturers realize the threatened danger to Southern industry, and appreciate fully the efforts of agitators to gain a foothold. Others did not view the situation with any degree of alarm. This was especially the attitude of some of the smaller producers who in their direct contact with their employees believe in the soundness of Southern labor.

On the eve of the convention H. F. Fitzgerald, president of the American Cotton Manufacturers Association, and Lincoln Baylies, president of the National Association of Cotton Manufacturers, issued a joint statement indicating that the Northern and Southern mills are "cooperating more closely than at any previous time, and it was emphasized that:

"Executives of the industry, regardless of the sections of the country in which their plants are located, have been working together for the past three years with the Cotton Textile Institute to bring about better business and more steady employment for the army of operatives dependent upon it for a live-

lihood. Cotton manufacturing is now a \$2,000,000,000 industry. The latest available figures show there are 1347 mills employing about 500,000 persons and producing 9,000,000,000 square yards of woven cloth annually."

The importance of the South in cotton manufacturing is evident when one realizes this section now has about 52 per cent of the country's cotton spindles, produces 62 per cent of the cotton goods manufactured in the United States, and consumes about 70 per cent of the American cotton used by all American mills.

The two associations convened separately for their business meetings and then in joint sessions when topics of interest to the whole industry of cotton manufacturing were considered. Of especial significance in the opening session of the American Cotton Manufacturers Association Friday morning were the addresses of President Fitzgerald, and J. E. Edgerton, president of the National Association of Manufacturers, the representative organization of American industry in general.

In the course of his address Mr. Fitzgerald, after briefly reviewing the history of the American Cotton Manufacturers Association, composed of Southern mill owners, during the 33 years of its existence, said:

"Generally speaking, it seems to me that we have about all of the elements that could logically be designated as necessary for the successful conduct of a large and growing industry; we have resources in almost prodigal abundance; we have plants well designed, practically up to date—most of them developed within environments and upon foundations both material and financial that, with proper management, should permanently endure; we have the climate; the raw materials, and, at present, we have what ought to be prized as a most valued asset—the best labor in the world, if we treat them as our fathers did, and adhere to the original purpose of promoting their well-being and happiness, and refuse to permit them to be exploited either by narrow, selfish policies, or by outside radical interference.

"I said that we seem to have 'about all of the necessary elements,' but will

you permit me to qualify that statement? There seems to be something lacking, and what that something is, not only is a cause for immediate concern, but amply justifies our most careful and concentrated study."

Industry Not Prosperous in Spite of Record Output

"Notwithstanding our many advantages, the industry as at present conducted is not prosperous. No industry can long survive without reasonable and legitimate profits: it is the life-blood that must pulsate freely through the veins if strength is to be maintained and the demands of progress met. We are told that our Nation as a unit has attained the most advanced economic position ever reached by any people. That the first quarter of this year 1929 has broken all previous records in production and profits by several of the major industries. That in spite of the almost universal complaint of subnormal demand for textiles, the movement in some lines has been larger than ever before. If the census figures are correct as given out by Mr. Pickard, the production for 1927 exceeded by approximately three-quarters of a billion square yards the previous highest output in the history of the industry. We are told that the rate of production for the first quarter of this year is approximately 111 per cent of full, day-run capacity—and yet the industry as a whole is not making any money!"

"The Low-Cost Operator"

In seeking to search out the facts as to conditions confronting the industry as a whole, Mr. Fitzgerald asked:

"Do we lack the element of good management that enabled our predecessors to win the distinguished success the fruits of which they bequeathed to us? Is there something about our present system that, in spite of any effort we can make, is dissipating our energies and bleeding our plants to death?"

"Ignoring the fact that practically the same engineering, the same machinery builders, the same textile schools for technical training, the same raw materials, and almost the same everything else that enters into the cost, have long

ago dissipated the 'secret advantages'—except for variations in wage rates and the difference in the abilities of management—the 'low-cost operator' flatters himself that he can beat the game, by splitting hairs more dexterously than others and, as a rule, is not even willing to standardize his cost methods to discover whether or not he is operating at a legitimate profit. His philosophy is to run the plants all the time and produce every pound that he can, and sell the goods at what the market will pay. He thinks that whatever curtailing is necessary should be done by others less favorably situated than himself.

"Now, in what respect is he more favorably situated than others? In so far as low labor costs and exemption from burdensome taxes may contribute to this delusion, I do not regard these as in any sense permanent fixtures. The tax problem is coming more and more to the front, even in those states that have broadly advertised their liberality, and it is already a heavy burden upon many of our plants."

*Sacred Responsibility Rests Upon Industry
to Pay Living Wage*

"As to wage rates, there is nothing smart or commendable in any management that seeks to drive its costs down by lowering the standards of living of the operatives. There is a more sacred responsibility here than the mere question of eking out a meagre profit. Those who are paying wage rates below a fair Southern average are jeopardizing their own interest as well as that of the whole industry, and it is indeed a false security for them to assume that low cost derived from such a source is either tenable or justifiable. Furthermore, so soon as there occurs a sure enough 'back-to-the-farm' movement, or any of several other contingencies that may arise, it will be discovered that the much-advertised 'inexhaustible' supply of labor no longer exists.

Pernicious Evil of Price Cutting

"It is this same gentleman who styles himself a 'low-cost operator,' who feels that he cannot afford to co-operate with others in lifting the standard of ethics in the industry, and he is usually the price cutter because his policy is to run his plant all the time and sell his goods at what the market will pay. * * *

"The pernicious evil of price-cutting is the outgrowth of the unstabilized or overloaded market. It is usually the result of teasing unwilling buyers to take goods that they do not want. It has produced a type of buyer that is now a perennial parasite, more destructive to stability than the boll-weevil is to cotton. He is kept supplied with merchandise that he will only buy on a distress basis and with it he proceeds to knock the bottom from under every legitimate channel of distribution. The much-heralded phenomenal profits attributed to the scientific management of some of the modern distributing systems are in a large measure the garnering that results from enormous volumes of goods, procured from the manufacturer on a distress basis—that is to say, at or below, cost. The same goods, mind you, that could and should be distributed to

the consumer without distress to anyone."

When Old Methods Fail

"The question is often asked, Where are our old-time merchants who so ably represented the products of our mills, and contributed so conspicuously to the success of this great industry? It is not fair to say that they are all dead! There are many capable, broadminded men among the selling agencies, whose attitude is constructive, and who deserve great credit for such measure of stability as we have had. On the other hand, there are many others whose eagerness for self-interest apparently precludes the co-operative principle, and whose sole philosophy for meeting the new problems of today consists in following old methods that brought on our present troubles. I am not unmindful that the solution of these problems is not as simple as 'falling from a log'; that they cannot be rectified in a day, and the same language used by President Hoover in his message to Congress about the farm problem is applicable to this—that it belongs not to the realm of politics, but to that of economics. I also agree with my good friend, Mr. Edgerton, that 'neither science nor philosophy has yet provided a substitute for common sense as the most reliable cure for any inorganic trouble.'

Problems of Industrial Progress

Following Mr. Fitzgerald, Mr. J. E. Edgerton outlined a few of the "Problems of Industrial Progress."

The substance of Mr. Edgerton's address was as follows:

"We should keep in mind the stimulating fact that nothing imposes more problems than progress itself and that only by the strength acquired through the processes of solving the problems of life are we able to proceed to higher levels of economic and moral living. We should also remember the sobering truth that there are more perils in material prosperity than in any other economic state. Since we have attained, primarily through our industrial development, the highest economic position ever enjoyed by any nation, it is therefore neither surprising nor discouraging that the difficulties involved in maintaining that position and in advancing to new heights are constantly multiplying and becoming more complex. Not only is conformity with economic law necessary to sustain but there are both political and moral factors which cannot be ignored.

"I applaud the report of President Hoover's Committee on Recent Economic Changes as a highly valuable contribution to our general treasury of economic understanding upon which we must depend for the perpetuation of our industrial progress, but that committee, as able as it was, did not reveal any new truth. It only summoned from desuetude those truths whose leading importance has been accentuated by our new industrial experience. The committee sees our industrial pathway of the future illuminated by the hope of a constantly

expanding consumptive capacity through the maintenance of high wage levels and the increase of leisure, made possible by efficiency of management, aided by the skillful applications of new discoveries of science and the mechanization of industrial processes. Its final general conclusion is that 'we cannot maintain our economic advantage or hopefully realize on our economic future unless we consciously accept the principle of equilibrium and apply it skillfully in every economic relation.' Every far-seeing manufacturer and business man should and will accept this economic formula as indispensable to our general industrial progress.

The Bigger Problems Lie Outside of Individual's Business

"But let me emphasize by repetition that the centripetal forces of a political and moral character which play upon our industrial movements today are as powerful in the determination of our future as are the centrifugal forces within the realm of direct management. In other words, the attitudes of government toward industry and business and the spiritual reaction of society to the materialistic effects of economic prosperity will be, in my opinion, increasingly important forces which must be considered.

"President Hoover's committee called attention to the cultural and helpful uses to which the increasing leisure of our people has been and is being put. I lament the absence of the tempering suggestion in this connection that to these uses of leisure the well-known economic Law of Diminishing Return is quite as applicable as to the processes of business activity. Indeed, it is a truth worthy of all acceptance that crime, immorality and spiritual decay have about as close relationship to leisure as does culture itself. This seems to be reflected by the fact that while ours is the most economically prosperous nation on earth and our people on that account have the most leisure, we stand out today as the world's most distinguished criminal, having the blackest record as such which ever darkened the future of a great nation. Undoubtedly our industry and business will be eventually undermined by these conditions unless as much corrective attention is given to the maintenance of our moral equilibrium as to the purely economic. I claim, therefore, that these aspects of our problem should be of primary concern in our individual and collective considerations of programs. Let me repeat the thought that what is happening today outside the circumference of your individual business and of your industry itself is playing as big a part in the determination of the destiny of your business as all that is happening within.

The relationship between government and industry and business is growing constantly closer. Our government itself is the biggest business institution on earth. The wisdom and efficiency with which it manages its affairs will govern the results of the managements of the individual businesses of its citizens. Every act of government has a very direct or indirect bearing upon the individual business of its every citizen. Every law that is passed is either distinctly helpful or hurtful to business. When we remember that our Congress and 48 state legislatures add annually an average of 15,000 new statutes for the government of its citizens and their business, we can better appreciate this relationship. The vast majority of these laws entail new costs primarily to industry, because it is only out of what a nation produces that it can pay the cost of its own perpetuation and the liabilities imposed by developing civilization. Industry bears the chief burden of the cost of government. This total cost in our nation today is approximately \$12,000,000,000 annually, which is 20 per cent of the aggregate value of our annual industrial production. This stupendous sum which is expended annually for our government indicates not alone that we are a progressive people, but that too much of our substance is required for the regulation of our conduct and the government of our operations. Let me impress the fact that at the seats of government, local, state and national, not an hour passes in which things are not done that are of vital importance to every manufacturer and business man. Not an hour passes that at one of these points new costs are added, which call for increased taxation primarily upon industry.

Government's Increasing Invasion of the Domain of Private Business

“Furthermore, at all of these three centers of government new invasions of the domain of private business and the areas of individual liberty are being almost daily attempted. More and more government, particularly local and state government, has been going into business in competition with its citizens, contrary to the very genius of our institutions. While our government is the chief customer of its citizens, it has been rapidly becoming their most dangerous competitor. It may be that the tide of radical thought which was swept up by the winds of war may be receding. But it is still at a dangerous height and a threat to our safety.

Freedom of Contract More Important to Employes Than to Employers

“There is one other fundamental truth which I want to present briefly. It is

as old as our government itself and constitutes one of the basic principles upon which this republic was founded. American industry cannot and will not advance, nor even maintain its present pace, if for one moment we relax our attachment to the principle of what is known as the open shop in our employment relations. Nothing can be more fundamental to the progress of a free people than the maintenance of the freedom of contract. Any curtailment of that freedom or the restriction of any other guarantee of individual liberty in our national constitution will be not only offensive to every reasonable conception of the American theory of government, but a deadly blow to our industrial progress. It is of even greater importance to the masses of working people today than to those who employ them. No one who understands our institutions or is acquainted with our history can believe that we could have ever reached industrial supremacy among the nations of the world except by guaranteeing and guarding the unlimited, unrestricted and free opportunity of all citizens to pursue happiness without interference from any source. For the most part, relations between capital and labor in America today are on not only a peaceful, but a fraternal, basis. There is no quarrel between the employer and the employed masses of Americans today. The only quarrel is between management and those parasites, or ex-workers, who have set themselves up as guardians of the rights of the masses of working people on the evident theory that the working people themselves haven't intelligence enough to make their own contracts and regulate their own lives. It is the business of these exploiters of labor to disseminate discontent, generate hatred where they can and disrupt by every means the pleasant relations existing between employers and their employees. Such disturbances, therefore, as now exist in the South, or elsewhere, have been superimposed by these alien agitators who thrive only upon discontent. I had rather see my plant destroyed than to carry with me through life the compromise of a principle.

Future of Southern Industry

“As I see it, the future of Southern industry in particular is now in the balance and will, to a large extent, be determined by the outcome of the present conflicts on the industrial border of that section. That, to my mind, is the chief problem confronting Southern industry today. The future development of that section waits upon the outcome of this conflict. The issue should be resolutely met by the manufacturers not only of your own trade in the South, but by all other trades whose welfare is threatened by this unhappy situation.

It is only a question of getting the facts to the public, which is the court of last resort. When the public can be shown, as it should be shown, that the unhappy situation at these points of conflict is not inherent, but that it has been brought on by alien exploiters, peace will soon be restored and Southern industry can resume its remarkable progress.

“Every manufacturer should be sure, in the first place, that he is doing his full duty to the people whom he employs and that there is no cause within his plant for distrust of his sense of justice and fraternal consideration. Then when he is satisfied on those points, he should let it be known without apology, but with pride, that at every cost he is going to maintain not only his own rights as an employer of labor, but that he is going to defend the right of his people to self government and to the unrestricted opportunities for advancement.”

Grower Will Produce Long Staple Cotton If He Can Secure Price for Quality Staple

At the Friday morning session of the National Association of Cotton Manufacturers, the address of O. F. Cook, of the Department of Agriculture, on the Rehabilitation of Sea Island and Other Long Staple Cotton was of significant interest to the Southern cotton grower as well as user. He said there is no agricultural reason why farmers in the cotton belt should plant any variety of cotton that produces fibre less than one inch long. That the reasons why short and irregular cotton continue to be produced arise from the commercial practices of the industry. The method of buying cotton is the chief limiting factor and it was this method of buying from the grower of long staple cotton at a “flat” price regardless of quality which was the principal cause of the destruction of our Sea Island cotton-growing industry, and not the boll weevil. It was the cotton buyer rather than the grower who took the premium for quality, and although the manufacturer paid a higher price for the superior fibre, the manufacturer followed a trade custom which in the end deprived him of a domestic supply. Furthermore, the buying of cotton without discrimination of quality in the primary market is a definite restriction because the cotton grower has no incentive to produce a longer staple. Continuing, he said:

“How to remove the commercial obstacle to improved production is the practical question and only one way has been found. From the nature of the industry it is not practicable to change at once the system of buying, or to provide for competent classing of all of the cotton in the primary markets so that

scattered individual farmers could be assured of having the superior quality of their cotton recognized by the local buyers. But there is a way to get better prices for producing better cotton in communities where farmers are sufficiently interested and progressive that they can unite upon the production of a single improved variety. An organized one-variety community can produce a commercial quantity of the superior fiber and on the basis of a standardized production of a uniform staple better market conditions can be established.

"Under the coast-plain conditions the planting of short cotton instead of the Sea Island or other long staple types can be considered only as a failure to recognize and make use of the one advantage that the southeastern districts undoubtedly have over other parts of the country, the advantage of being able to produce better long staple fiber. The planting of short cotton already has been discontinued as unprofitable in some of the former Sea Island districts in Florida so that isolated communities for planting Sea Island cotton could be established."

The joint meeting of the two associations Friday afternoon was devoted to the subject of "Today's and Tomorrow's Problems," at which Mr. Fitzgerald presided. The speakers included: Nelson B. Gaskill, former Federal Trade Commissioner; Dr. Julius Klein, assistant secretary of the Department of Commerce, and Warren S. Thompson, director of Scripps Foundation, Miami University. Mr. Gaskill spoke on the "Fallacy of Price Discrimination"; Dr. Klein's topic was "Future Business"; and Mr. Thompson's subject was "Our Changing Population and Industry."

World Trade and Textile Trends

Dr. Klein pointed out that "world competition in textile products is extremely sharp and attended with perplexities. Manufacturing facilities have been very greatly augmented. There is an imperative need for oversea markets to take care of the increased flow of products. In consequence of these conditions, we discern abroad a distinct trend toward both vertical and horizontal combination in order that costs of production and distribution may be lowered. A greater development of mass production by our chief foreign competitors seems imminent. This portends keener competition for those of our products that are sold overseas as a result of lower unit cost due to mass production."

"Let us glance at the question of industrialization—the establishment of textile factories in countries that were formerly accustomed to buy their cotton goods from the United States or Europe. The most astonishing instance, of course, is that of China. During the past 13 years

the number of spindles in that oriental nation has jumped from 1 to 3½ millions, and the looms from 4600 to nearly 30,000. So we find China exporting more than five times as much cotton cloth in 1927 as in 1915. Our American sales of cotton cloth to China dropped, in value, from 5½ million dollars before the war to less than a quarter of a million last year.

"In our textile trade with Japan a comparable transformation has taken place—to our indubitable disadvantage in those particular localities.

"But have these things been disastrous to our cotton-textile export trade, considered as a whole? Figures prove conclusively that they have not. We are now exporting annually between 500,000,000 and 600,000,000 square yards of cotton cloth, against only 400,000,000 in the years immediately preceding the World War.

"In 1928, United States exports of cotton yarn were over 26,000,000 pounds or an increase of nearly 1000 per cent over the shipments to foreign markets in the year 1913. This increase, by the way, is in direct contrast to the experience of our chief competitor, whose exports declined 19 per cent during that period.

"The healthy, gratifying export growth that I have indicated shows that the 'textile industrialization' which we have witnessed in various sections abroad has by no means been as damaging as one might easily imagine. Clearly, compensatory factors have been at work. New markets have been discovered and developed. Standards of living have risen over broad areas. New vistas have been opened. Habits of thought have been changed. New wants have been born."

War for Price

"The characteristic of distribution at the present time is a war, a war for price and over price," declared Nelson B. Gaskill. "The manufacturer," continued Mr. Gaskill, "has in his own hands a large measure of control, if he will exercise it, through a reformation of his sales policy. If he does not see that it is to his own advantage to do so or does not possess the necessary fortitude, the power of control will pass into the hands of the distribution forces.

"The tendency of the use of the quantity discount beyond strict justification, is to build up the power of mass buying because as quantity becomes the determining factor in the distributors buying, it becomes as well the determining factor in distributive selling. Those will survive as sellers who can get the best terms as buyers and if it is the largest buyers who can sell best the pressure toward buying combinations will be constantly increased. And when this comes about the manufacturer will find himself under the control of the distributive system."

Consolidations Suggested As a Means of Overcoming Some Difficulties

Mergers and the disastrous consequences of overproduction were the principal topics of discussion at the joint banquet of the Associations on Friday evening. Wm. R. Bassett, of Spencer, Trask & Company, speaking on "The Place of Mergers in the Cotton Textile Industry," advocated the formation of "several well-planned, economically sound mergers of the so-called horizontal type. A variation of this form, called by some the 'circular merger,' composed of non-competing producers of complementary finished products which can be sold as a group by a single sales force, is indicated as best for some mills."

As a beginning, Mr. Bassett expressed the opinion that it may be well to combine the horizontal and vertical forms in one merger, including in one group several spinning mills, several weaving mills producing similar fabrics, dyeing and finishing plants, and a selling company.

In enumerating the advantages that would accrue to the cotton industry from the formation of several preliminary mergers, Mr. Bassett pointed out that a few strong, well-managed concerns would be better than many small, poorly managed companies; they would be in a better position to deal with powerful consolidated buying groups, such as chain stores; that several mills in the combine making complementary products would be able to concentrate their selling through one sales organization and that amply financed mergers could afford to carry on extensive research and advertising campaigns, which would be impossible for the smaller individual mills to undertake.

Continuing, Mr. Bassett said: "There will, of course, be other advantages to a far greater degree than will be possible from the preliminary mergers I have discussed. The greatest of these is economy. In fact, I am convinced that unless a merger makes possible economies of production, distribution and finance, which are not attainable by the merged enterprises as individuals there is seldom any sound economic reason for a merger."

Overproduction Breeds Profitless Prices

President Lincoln Baylies, of the National Association of Cotton Manufacturers, warned against overproduction, which has afflicted the cotton industry from time to time with dire results, and he indicated that "the trade has already begun to discount the situation that will result from excessive overproduction." Further:

"Even during periods of sales activity and when the volume of sales was large,

the almost general complaint of the industry was the inability to get prices on sales that would give the mills an adequate return on their investments. Other industries have learned that profits come from a close control of production to sales. If our industry does not return to a profitable basis, it must adopt a similar control.

"The other side of this black picture is that during the past nine months there has been a decided increase in the popularity of cotton fabric. The present trend in demand for cotton fabrics as wearing apparel has made the necessity for a different method of merchandising even more acute than formerly. It is the realization of this trend, with its attendant changes in merchandising and salesmanship, that must be faced by distributors of styled fabrics."

Selling goods at profitless prices because some mills, under exceptional circumstances, choose to sell or feel compelled to sell at prices ruinous to the great bulk of the industry, is the basic trouble with merchandising in the cotton industry, according to Walker D. Hines, president of the Cotton Textile Institute, who also spoke at the banquet. Mr. Hines said:

"The industry must learn that instead of trying against its own interest and against public interest to meet this situation by selling goods below cost, it can do far more good to itself and give a better protection to the public by letting these inevitable low sellers dispose of goods at these low prices if the latter prefer to do so."

The convention closed with a business session of the American Cotton Manufacturers Association on Saturday morning at which the following officers were elected for the ensuing year: President, Arthur M. Dixon, Gastonia, N. C.; First Vice-President, B. E. Geer, Greenville, S. C.; Second Vice-President, Cason J. Callaway, LaGrange, Ga., and W. M. McLaurine, Charlotte, was unanimously reelected Secretary and Treasurer. New members elected to the Board of Government were: Donald Comer, Harrison Hightower, B. B. Gosset, J. C. Evins, T. H. Webb, and to the National Council, T. M. Marchant and H. R. Fitzgerald. Among the resolutions passed were:

That Congress be requested to authorize the Bureau of Standards to make a thorough investigation of cotton gins and methods of ginning cotton to improve conditions and eliminate existing evils.

That Congress be petitioned to fix a duty upon the importation of jute as a competitor of the cotton grower and manufacturer.

To encourage the growing of longer staple and better cotton.

Disapproval of the debenture plan in farm relief and urging Congress to strike this feature from the bill now pending.

Against Government competition and urging the practice of making textiles in prisons be abolished.

\$10,000,000 Residential Development Projected at Miami

Detroit Capitalists and Others Reported to Build Residences to Cost \$100,000 to \$500,000 Each

Miami Beach, Fla.—A number of wealthy motor manufacturers of Detroit, Mich., are reported to have contracted for the purchase of property south of Baker's Haulover here for the establishment and development of a residential colony to involve an expenditure of from \$6,000,000 to \$10,000,000. Capitalists said to be interested in the enterprise include Joseph G. Graham, Robert C. Graham and Ray A. Graham, all of the Graham-Paige Motor Co.; W. O. Briggs, president of the Briggs Body Co. and Briggs Commercial & Development Company of Detroit; J. Q. Goudie, assistant to Mr. Briggs, and several of the Fisher brothers, identified with the Fisher Body Co. and the General Motors Co.

Twelve large ocean front estates will be provided east of a new road, which has been approved by Dade County Commissioners and by the town of Miami Shores, to be built at the expense of the corporation handling the development of the project, the road to be 75 feet wide and 4400 feet in length, built on made land and beautified. The twelve residence owners will control a recreational park west of the new road, and facilities will be provided at the northern end of the park for an airport. Other features of the development will embrace tennis courts, bridle paths, stables for riding horses, polo fields, yacht club and docks. J. Julian Southerland, Miami, is counsel for the owners.

The Fight for an Adequate Duty on Manganese

At the night session of the Ways and Means Committee on May 16, members of Congress from 20 states presented a renewed appeal for a $\frac{1}{2}$ cent increase in the tariff on manganese ore and protection for low grade ores. States having substantial deposits of manganese ore and represented at the hearing were as follows:

Alabama, Arizona, Arkansas, California, Colorado, Georgia, Idaho, Massachusetts, Minnesota, Montana, Nevada, New Mexico, North Carolina, Oregon, South Dakota, Tennessee, Virginia, Wyoming, Washington and Utah.

The appeal was presented by a committee composed of Congressmen William Williamson, South Dakota (Chairman), Samuel S. Arentz, Nevada; Scott Leavitt, Montana. Congressman Leavitt was chief spokesman of the Committee. "Manganese from Russia is fast invading the American market and retarding production of American ores," he said in brief. "If the duty on the metallic manganese content of ores is not increased to

$1\frac{1}{2}$ c per pound the principal beneficiary will be the Treasury of the Russian Government." Also, "Quantities of manganese ore below 30 per cent metallic manganese are being shipped into the United States free of duty."

Reserves of manganese in the United States were reviewed. "There was a time when manganese was considered in terms of high grade ore in its natural state only. But today we look at manganese in terms of low grade ore which may be treated or beneficiated into a high grade product. The reserves of low grade ore are known to run into the hundreds of millions of tons. The ore produced is higher in grade than any other ore known in the world," he said. Further:

"The increase of $\frac{1}{2}$ c per pound of metallic manganese is sufficient only to guarantee a price approximately 65c per unit, which is 3 cents per unit lower than the average price paid by steel companies for foreign ore covering the five year period ending January 1, 1929."

Protecting Forests in Florida

The Florida board of forestry has requested from the Budget Commission \$81,000 a year for a two-year period for forestry work. This would enable the board to list 1,500,000 additional acres for protection during the next year, and 2,000,000 acres the year after. The Bud-

get Commission has cut this request to \$25,000 a year, but has granted the board permission to apply to the Legislature for additional funds. The \$25,000 granted will permit the Board to co-operate with the Federal Government and landowners in the protection of 500,000 acres for the first year.

The Jadwin Mississippi Flood Control Plan Under Vigorous Criticism

PENDING an investigation, the award of contracts for the setback levee from Birds Point to New Madrid in the Upper Saint Francis Levee District, bids for which were received on May 22 at the United States Engineer Office, Memphis, has been suspended, in accordance with the fight of the MANUFACTURERS RECORD for this action.

This announcement, made last Thursday by Secretary Good of the War Department, followed a conference on Wednesday at which Senator Hawes, Democrat, Missouri, presented a protest signed by the entire Missouri delegation and Governor Caulfield of Missouri and a resolution passed by both branches of the General Assembly of Missouri, petitioning President Hoover and the Secretary of War to postpone the letting of contracts for the Birds Point-New Madrid levee project.

On Wednesday Federal Judge Charles B. Davis, St. Louis, denied an application for an injunction against the Government to prevent the award of contracts for constructing the flood control project in Mississippi and New Madrid counties in Missouri, the court action being announced only an hour before the time set for the opening of bids at Memphis.

The Flood Control Committee of the American Engineering Council, meeting in Pittsburgh on May 19, charged an insufficient study of the engineering and economic phases of the flood control of the Mississippi River, declared the adoption of a permanent plan of flood control at present would be a grave mistake, vigorously protested against the plans of General Edgar Jadwin, Chief of Engineers, and urged President Hoover to create a Board of Review composed of non-partisan and competent civilian engineers with authority to develop the best possible solution of the Mississippi flood control problem. On Friday the Administrative Board of the American Engineering Council, meeting at the Mayflower Hotel, Washington, went on record as approving the report of the Flood Control Committee.

Reasons why members of Congress from nine Mississippi Valley states believe the President should promptly review and interpret the Mississippi Control Plan adopted by Congress in 1928 were embodied in a brief sent last week to President Hoover and forwarded by him to the Secretary of War. Senators and Representatives from Indiana, Iowa, Kentucky, Tennessee, Mississippi, Illi-

nois, Missouri, Arkansas and Louisiana signed the petition to the President.

Just now, leaders of the fight to force a review of the Jadwin plan are marking time. How long the award of contracts for the setback levee in Missouri will be postponed has not been announced. It is known only that the Secretary of War proposes to give the whole matter a rather thorough investigation and submit the legal phases of it to the Attorney-General for review. However, it was said at the office of the Chief of Engineers that it would be but a few days before something definite would be known regarding the levee setback project awards. General Jadwin was in conference on Thursday with Secretary Good, and is understood to have discussed at some length the general situation, arising from the numerous attacks that were made last week. Initially the Secretary of War announced he would make a statement, but reconsidered and refused to make any public statement. General Jadwin likewise declined to comment, pointing out that "the subject is now before the President." Senator Hawes was elated at the announcement that the award of contracts had been delayed, but declared that this alone would not satisfy the Valley Representatives in Congress and that it would be a fight to the finish, carried to the floor of the Senate to enact, if necessary, special legislation to curb the fulfillment of the present Jadwin plan.

Senator Hawes Attacks Flood Control Plans in Missouri

Senator Hawes charges that in the administration of the 1928 Flood Control Act "bureaucracy is running wild." The present controversy rages over the flowage rights in two southeastern Missouri counties, and Hawes declares that the rights of landowners in the area affected are being disregarded.

"The Jadwin plan differs from any other project in that it proposes to take water out of the Mississippi River, run it through our state and dump it back into the river, flooding for a period 135,000 acres of land," said Senator Hawes. "Without proceeding either to purchase such properties, or to condemn them, the Chief of Army Engineers and the head of the Mississippi Commission advertised for bids and proposed to let contracts for building a setback levee, the only conceivable purpose of which is to permit the flooding of 200 square miles of Missouri territory. The only land for the taking of which con-

demnation proceedings were instituted was the right of way for the levee itself. The 200 square miles to be flooded are simply to be left between this levee and the flood waters of the Mississippi River until such time as the Chief of Army Engineers is ready to cut the main levee and permit the flood of water to enter."

Mr. Hawes points out that included in the area to be devoted under the Jadwin plan to a floodway in the Birds Point section are 175 miles of highways, 97 miles of drainage canals, 35 highway bridges, hundreds of miles of tiled drains, schools, churches, dwellings, and many miles of railroads. The assessed valuation for state taxes in the area is said to be \$5,000,000 for farm lands only. The residents of the district have taxed themselves in excess of \$3,000,000 for ditches and levees to develop the area, so that the estimated value of the property is now between \$12,000,000 and \$15,000,000.

Although lacking in confidence in the efficacy of the Jadwin plan the Missourians in Southeast Missouri were willing to accept the flood control program for the benefit theoretically of the entire Valley, and would not have entered serious objections against a proper condemnation proceeding on the part of the Government to purchase the property or obtain flowage rights over it. Senator Hawes believes, but declares "they properly resent the attempt of the Government to destroy their property, as the building of the setback levee will do, leaving their compensation open to serious doubt and uncertainty."

"In passing the Flood Control Act of May, 1928, Congress believed that the policy of compensation for property taken, used or damaged by the Government was definitely established," Mr. Hawes points out. "It develops, however, that the Chief of Army Engineers, after selecting his own arbitrators to pass upon the two plans, has decided that he need not pay for flowage rights over these 135,000 acres of Missouri land until he has erected the setback levee and is prepared to cut the main levee. The mere threat of first building this setback levee before compensation has been established has already adversely affected all property within the district. Property owners find it impossible to borrow money on lands in the territory to be flooded. They can thus neither protect their equities nor finance their crops."

"In some of the other projects the

Chief of Army Engineers has decided that the Government need not pay damages at all, which is of course even more serious than the Missouri situation, but which decision is not of imminent character because no contracts are to be awarded as yet. What Missouri citizens are interested in is that the time-honored constitutional principle of taking private property for public use is being grossly violated against the plain intent of Congress and the dictates of law.

Warns Litigation May Seriously Impede Construction

"Both common justice and humane considerations are to be put aside to gratify the pride of personal opinion," declared Senator Hawes. "Unless the arbitrary plans of the Army Engineers are stopped, it will bring litigation involving long years of time in settlement, endangering both life and property throughout the entire Valley. It has been my contention that the great work in the Valley is of such magnitude and importance that it should not be entrusted exclusively to Army Engineers, but that civilian engineers of ability should be permanently employed.

"The Jadwin plan has been forced. Its economic falsity will be disclosed to be not a cheaper but a more expensive plan than the Mississippi River Commission plan, and before the discussion ends, the country will know that the Jadwin plan is wrong from an engineering standpoint and wrong in the matter of cost, and that if constitutional provisions requiring compensation for the use of private property by the Government are preserved, the Jadwin plan will prove to be more expensive than the Mississippi River plan and less effective in an engineering way."

Jadwin Defends Setback Levee Project

General Jadwin declares that the present program "will give Southeast Missouri by far the greatest protection it has ever had and far greater protection than any other plan that has at this time been suggested." In reply to the statement that the Government is seeking to acquire rights over land without payment General Jadwin insists that the law specifically provided that whenever easements, flowage rights or rights of way were acquired, the property owners were to be compensated. "Under the adopted flood control project," said General Jadwin, "protection against flood waters of the Mississippi River for all time is to be constructed for the lands in Southeast Missouri, with the exception of a small strip of land, over half already subject to backwater. For this strip of land, the United States is to pay damages. During the last great flood, a crevasse overflowed the greater

part of this strip as well as other lands adjacent to it, and the local people had to bear their losses. Without the adopted plan or with any other proposed, Southeast Missouri would be left in jeopardy, and under the necessity of bearing all flood losses. Under the adopted project, the United States bears all expenses of flood control, including just compensation for any rights in land from which protection is to be removed."

Engineers Urge New Board of Review for Flood Work

Creation of a Board of Review, composed of non-partisan and competent civilian engineers with authority to develop the best possible solution of the Mississippi flood control problem, is recommended by the American Engineering Council. Pending the designation of construction projects which would be common to any acceptable plan, the Council recommends that work be restricted to the repair, strengthening and raising of existing structures and to the construction of the Bonnet Carre spillway. The recommendations are based on the work of the Council's flood control committee composed of Gardner S. Williams, civil engineer, Ann Arbor, Mich.; Baxter L. Brown, consulting engineer, St. Louis, Mo.; Arthur E. Morgan, engineer, Dayton, Ohio, and John R. Freeman, consulting engineer, Providence, R. I. These men are said to be among the leaders in the hydraulic engineering profession. Their report has behind it the influence of the national engineering societies that make up the organization, which was founded by President Hoover.

It is charged that sufficient study of the engineering and economic phases of flood control on the Mississippi River has not been made to justify the Federal Government in adopting any plan therefor, and that it would be a grave mistake to permit the letting of contracts for any of the controversial elements until the engineering practicability and economical feasibility are adequately studied. Further, the Council is of the opinion that the intent of Congress and the best interests of the nation were defeated by the constitution and action of the Board created to adjust the engineering differences of the Jadwin and Mississippi River Commission plans, and also because the Board was restricted by the terms of the Flood Control Act of May 15, 1928, from considering any other than the two plans submitted, both of which plans were, in the opinion of the Council, hastily prepared and based upon inadequate data. There is in the engineering profession a marked and general lack of confidence in the plan adopted, declares the Council.

The brief presented to President Hoover by the members of Congress

from the Valley States contends that interpretation of the act involves "economic questions" affecting the Government as well as the Valley States and that the President alone has authority to decide and direct what construction shall be undertaken. It is pointed out that the plan of the Mississippi River Commission provides compensation for flowage rights in the areas to be inundated in certain flood basins while the so-called Jadwin plan provides no compensation. The brief quoted from the act to show that a board, made up of the Chief of the Army Engineers, the president of the commission and a civilian engineer may "recommend to the President such action as it may deem necessary to be taken in respect to the engineering differences between the two plans, which it was called upon to arbitrate. It is therefore evident," the brief points out, "that the powers and functions of the board were limited to investigations and reports to the President. It is also declared the powers of the President are not limited to approval or disapproval, but that he is also vested with authority to decide and direct, and that such authority is to continue throughout the execution of the entire project. Because of the differences between the two plans in the cost of individual projects it is urged that a comparison be made by taking into consideration every feature connected therewith, including the very important economic one of cost.

"Our contention is," the brief declares, "that the law clearly provides for payment of these property rights by the Government, hence it would be unwise to add enormously to the cost of the great project by adopting the Jadwin plan for floodways in the Boeuf and Atchafalaya basins, as this cost would exceed by many millions the aggregate cost of the Commission Plan to these two basins."

\$1,500,000 MARKET PLANNED

Structure Proposed for Dallas, Tex., Embodies Novel Features

Plans are being prepared by Lang & Witchell, Dallas, Tex., for a market project at Dallas for the Dallas Public Market, Inc., of which Alvin M. Owsley is president and Harry J. Lyons, secretary and general manager. The market will occupy a site of 14 acres on Haskell avenue, the main building to cover about 130,000 square feet. Construction will be of brick and facilities will include a refrigerator plant of approximately 45 tons capacity, incinerator and heating system. Stalls of steel and reinforced concrete construction, to accommodate about 500 farmers, will be provided around the main building.

Fighting the New Tariff

Evident Get-together of Internationalists, Expatriated American Capital Interests, Publicists and Theorists to Defeat Any Tariff Legislation

By WILBUR F. WAKEMAN, Former Appraiser of Merchandise, District of New York.

Number 11.

The opposition shrieks of the internationalists and expatriated American interests make me look with more favor upon the Hawley Tariff than at first. True, many Southern products have not been fully protected, and some of this is largely due to conflict with Philippine products. The Senate will clear up disputed points.

Specially featured articles in the department-store metropolitan press tell us of the terrible things that will happen if the Hawley Tariff is adopted; how the purchasing power of foreign countries for American products will be lessened; how unfair the American policy of protection is; and all manner of dire results are predicted. Alleged economists, professors, propagandists and bankers all seem to have exploded in their condemnation of adequate protection to American industry.

Perhaps the most violent opponent thus far, is one, Norman H. Davis, who in his younger days was an ardent free trader and whose writings commanded some attention. Mr. Davis wandered off to Cuba and according to his own biography of himself in "Who's Who": "Began business career in Cuba in 1902, became interested in banking, sugar and other enterprises; organized, 1905, The Trust Company of Cuba, and was president of same until 1917." Possibly Mr. Davis, while a "Cuban" knew of the big loans in Cuba by certain New York bankers, which finally (to protect themselves) compelled the bankers, reluctantly, to take over 23 or more sugar houses or "centrals." Naturally, Davis and the bankers want to get their money back through a ready market for sugar. They care little for the cane growers of Louisiana, Texas and Florida, or the sugar beet interests of 20 states. In the New York Sunday World, where Mr. Davis is given very liberal space, he says in part:

"If such a bill is passed it will wipe out all the good effects of President Hoover's tour in South America and other good-will gestures. It will cause such a dislocation in world trade and commerce as to seriously threaten the peace and prosperity of the world.

"The proposed duty on sugar is a striking instance of the way the interests of the country are utterly disregarded by those who are bent upon making profits for a particular industry. About \$1,000,000,000 of American capital has been invested in the sugar plantations of

[Are the banking interests of this country, combined with the sugar refiners—the two classes dominating the sugar interests of Cuba—to be given more consideration in the sugar tariff than the farmers of Louisiana, Texas, and Florida, and the beet sugar growers of the West? That is the question which may well be asked in view of the statement made in the following article by W. F. Wakeman, in which he reports that in order to protect themselves, New York bankers who had made big loans in Cuba were reluctantly compelled to take over 23 or more sugar houses or "centrals," by reason of the adverse sugar situation, even though Cuba was pouring its sugar by the millions of tons into this country, largely to the injury of the sugar interests of the United States, including both cane growers and beet growers. In the light of such facts, it is not surprising that there is a tremendous propaganda under way seeking to break down our tariff, not only as to sugar, but as to many other interests. The series of articles by Mr. Wakeman, which have been running for weeks, are illuminating to those who care to study this situation. — Editor MANUFACTURERS RECORD.]

Cuba; about \$200,000,000 is invested in the beet sugar industry in the United States."

And he remarks that "pigs who feed in the trough do not look up." His estimate of the expatriated American investment in Cuba may be correct, but he forgets the cane interests of the South, and his estimate of the American investment in beet sugar is "intellectually dishonest."

The New York World also quotes an unnamed financier and publicist both of whom parallel Mr. Davis' position. One of them referring to the Geneva conference of 1927 says:

"The conference not only unanimously condemned the further increase of barriers to trade but agreed that the time had come to move in the opposite direction and reduce them."

And that "Tariff barriers have been the fundamental cause of most wars."

Again, we find the same thoughts featured in the New York Sunday Tribune (shades of Horace Greeley) by R. L. Buell, research director of the Foreign

Policy Association; and foreign policy he certainly represents, not American. Mr. Buell reviews the preparation of the Hawley bill, commends the McMaster Senate resolution that "Many of the rates in the existing tariff schedules are excessive" and concludes that "The question before Congress today is not one of protection versus free trade. It is a question of protection versus superprotection." He sympathizes with the American farmer, wants to help him in exports, and then turns to Argentina. "That country is one of the few states south of the Rio Grande which produces for export agricultural commodities that compete with those produced in the United States." Mr. Buell becomes international and fears that the purchasing power of all countries will be smashed by the tariff; that European debts will not be paid. He continues:

"Sooner or later Europe will have to pay for her imports with goods or services; sooner or later the United States, if she wishes to maintain and develop foreign trade, will have to accept these goods and services. International trade is a process of exchange."

Singular that two great New York newspapers of opposite political faith should print, on the same day, similar insidious feature attacks upon the new tariff, filled with special interests of Europe and South America, and not a word of encouragement to American industry. The opposition to pending legislation does not stop here. The plate and mat news services are being utilized. In a bright local newspaper I find the pictures and interviews with Professor Irving Fisher of Yale and Professor H. R. Mussey of Wellesley College, under the heading, "Sugaring the Tariff at the Expense of Consumers is Dangerous, Say Economists."

The professors must have dined together before the interviews were given, for Mr. Fisher's first words are: "There is no good reason for raising the tariff on sugar"; and Mr. Mussey says, "There seems to me at the present time to be absolutely no reason for any increase in the tariff on sugar." Both professors continuing seem sad about the consumers but not a word for the American who works or wants to work, and not a word for American capital which ought to work at home.

Concurrently, "Antioch Notes," published by Antioch College of Yellow

Springs, Ohio, and written by Arthur E. Morgan its president, appears with an article entitled, "Trade and War," which is a general attack on the Protective Tariff with close application to the proposed Hawley Tariff. I quote briefly:

"The assertion that 'most modern wars are about trade' tends to be true because nations claim absolute trade sovereignty within their borders. If they will give up this claim and rely on justice interpreted by international law, 'trade wars' will cease. * * * If one nation is employing a large part of its men and resources to supply another with certain goods, then an embargo or high tariff suddenly imposed by the receiving nation may be almost as disastrous as war. The world must realize that trade is not a private matter for irresponsible national control. National barriers against trade should be erected only according to rules of good will and fair play, defined by international law. * * * A protective tariff on sugar in America is an example. It only keeps alive an industry that is uneconomic in view of far cheaper production in warmer regions. * * * In short, there should be no arbitrary tariff barriers or other unregulated restraint of free trade among nations."

"Antioch Notes" closes with the usual appeal for funds, this time for \$130,000. I wonder if president Morgan took active part in the last campaign and realizes the position of the major political parties and acknowledges the verdict of the American people.

I cite these publicity "stunts" to show what we may expect by way of opposition in the daily newspapers, magazines, tabloids, college and local press to the adoption of the Smoot-Hawley Tariff of 1929.

The internationalists and the expatriated American capital interests are and will continue an "educational" campaign against any adequate protective tariff, hoping thereby to influence public opinion against pending legislation.

It is easy to attack and criticize but difficult to construct and perfect national legislation. Unfair criticism seems welcome to many editors, and I have often wondered how so much un-American misinformation finds its way into the press as illustrated by these articles from which I have quoted. Discussing this thought with that great protectionist Hon. Leslie M. Shaw, former Secretary of the Treasury, at the national convention at Cleveland, in 1920, he said in effect: "If you want to find out who is responsible for the wide distribution of anti-protection editorial and news matter, look up the man or men who inspire it." Who is "inspiring" the opposition to protection on hides, leather and their products? Who is "inspiring" opposition to protection on cotton? Who is opposing duties on vegetable and mineral oils? Who is opposing duties on mineral products?

If we can uncover the real opposition to adequate protective tariff duties in any line we will find some foreign interest or dual American-foreign interest the inspiration of the present campaign. A careful editorial review of present publicity ought to be placed in the hands of every member of Congress, which would, in my opinion, make the vote for a Protective Tariff practically unanimous.

Production of Potash in 1928

Potash produced in the United States in 1928 amounted to 104,129 short tons of potassium salts containing 59,910 short tons of potash (K₂O), according to the Bureau of Mines. Sales by producers amounted to 105,208 tons of potassium salts containing 60,370 tons of K₂O. The potash materials of domestic origin, sold by producers in 1928, were valued at \$3,029,422 f. o. b. plants. Output increased 35.5 per cent in gross weight with an increase of 38 per cent of K₂O content. Sales of salts increased 71 per cent with an increase of 22 per cent in K₂O content. Total value of the sales increased 24 per cent. Stocks remaining in the hands of producers at the end of 1928 were 14 per cent less than at the end of 1927. Production was chiefly from natural brines in California and distillery residue from molasses in Maryland; small amounts were obtained also from steel plant dust in Pennsylvania and Virginia, and Steffen's water in Indiana.

A small amount of alunite was shipped from Marysville, Utah, but not utilized other than for experimental work.

Potassium salts imported for consumption into the United States in 1928, according to the Bureau of Foreign and Domestic Commerce, amounted to 975,661 short tons, representing an increase of 33.5 per cent in gross weight over imports for 1927. The estimated K₂O equivalent of these imports is 330,000 short tons, with a total value of \$22,519,992, or 22.5 per cent more than for 1927. Potassium salts imported chiefly for fertilizer amounted to 931,616 short tons (K₂O content approximately 310,000 tons), valued at \$18,227,830, an increase of 35.5 per cent in total quantity, and 38 per cent in value.

Potassium salts imported for the chemical industry amounted to 44,045 tons (K₂O content approximately 20,000 tons), valued at \$4,292,162, an increase of 2 per cent in total quantity, and a decrease of 17 per cent in value.

WORK STARTS ON BIG STEAM STATION

Georgia Power Company Awards Contracts for Project Near Atlanta

Atlanta, Ga.—Field work was recently started for the construction of a large steam power plant on the Chattahoochee River, about seven miles northwest of Atlanta, for the Georgia Power Co., of this city. The plant is being designed by the Southeastern Engineering Co., Birmingham, under the supervision of William P. Hammond, of that organization, and will be erected by the Empire Construction Co., Atlanta. It will be equipped with two boilers to generate steam at 475 pounds pressure and supply one 60,000-kilowatt, 90 per cent P. F., 13,800-volt turbo-generator. Pulverized coal will be used for fuel with a unit firing system, the usual auxiliaries consisting of water walls, air preheaters, forced and induced draft fans, feed water heaters, pumps and other equipment to be provided. Tentative plans call for three additional units to be installed as the demand for power increases.

Contracts have been awarded to the Combustion Engineering Corp., New York, for boilers, water walls, coal pulverizing and firing equipment and to the General Electric Co., Schenectady, N. Y., for the turbine. Ljungstrom air heaters manufactured by the Air Preheater Corp., Wellsville, Ohio, will be installed. Construction work is under the direction of W. C. Cram, Jr., manager of the Empire organization.

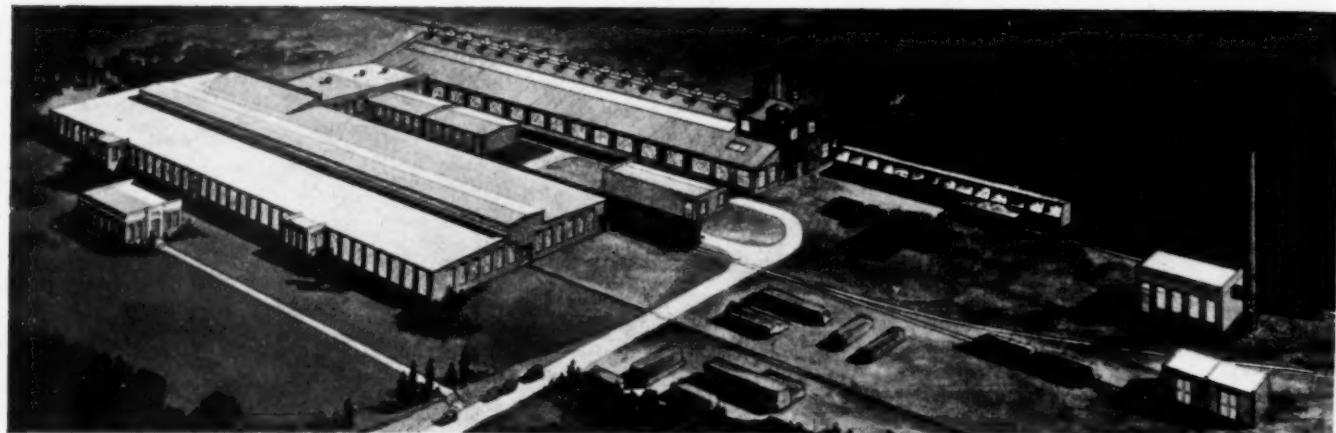
The project will be known as the Atkinson Steam Plant in recognition of the services of H. M. Atkinson, chairman of the board of the Georgia Power Co., in the development of the electric power industry in Georgia and the South.

65-Mile Railroad Extension Authorized

Sonora, Texas—Authority has been granted the Kansas City, Mexico & Orient Railway Company of Texas, H. E. Beard, chief engineer, Wichita, Kan., by the Interstate Commerce Commission, for the construction of a 65-mile railroad extension between San Angelo and Sonora.

Southern Textile Association to Meet

Waco, Tex.—The Southern Textile Association, Joseph C. Cobb, secretary, Charlotte, N. C., meets at the Hilton Hotel, this city, on June 7 and 8. Hugh S. Clark, Waco, president of the association, will preside at the meeting, which will be devoted to practical discussions of mill problems.



Manufacturing Plant of the Standard Looms Inc., Spartanburg

Spartanburg Diversifying Its Industries—An Example for Other Cities

By RICHARD WOODS EDMONDS.

Spartanburg, S. C., May 27.

Location in Spartanburg of the Standard Looms, Inc., indicates the trend of development in Spartanburg County, which is said to rank second among the counties of the South in number of spindles and first in the number of looms. Business leaders of the city, through the Chamber of Commerce, are working on the definite policy of getting industries that will fit into the present industrial scheme and round it out.

With the great concentration of looms and spindles, and with railroads radiating in several directions from the city, it is a logical location for any industry related to textiles. Besides the Standard Looms, Inc., there is the new assembly plant of the Draper Corporation and the bleachery of the Fairforest Finishing Company; the branch plant of the Rogers Fibre Company, makers of mill receptacles; Vaughn-Huff Belting Company; the Spartanburg Spindle & Flyer

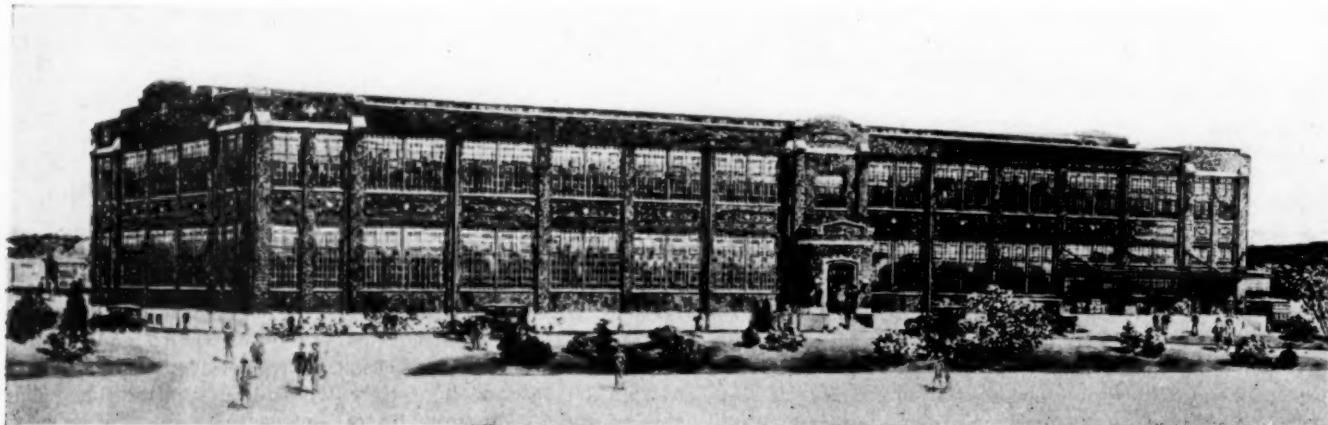
Shop; the Harrison & Wright Company, repairs and reconstruction of electric motors and generators; the Yarns Corporation of America, converters of rayon yarns; the United Waste Manufacturing Company, utilizers of textile waste; the Norlander Machine Company, makers of flyers. All of these diversify and round out the textile industry in this locality; they are all new plants.

While these various enterprises doubtless have the germs of growth into large industries, the most significant of the lot, because the most revolutionary for the locality, is the plant of the Standard Looms, Inc., for the complete manufacture of cotton looms and loom replacement parts.

Standard Looms is an outgrowth of the Hopedale Manufacturing Company, which was bought by the Draper Corporation, thus releasing for activity in the Southern field the men from whom it was acquired. It is the opening wedge

of the entry into the Southeast of the great textile machinery plants of New England. It buys pig iron and coke from Birmingham, while New England plants purchase them from New York State; it claims to get a better grade of castings here than it would make in New England, while paying less for pig iron, coke and labor, and for flux it uses local limestone.

The MANUFACTURERS RECORD has for years urged that New England textile machinery builders establish plants in the South for the manufacture of the lines of equipment they are selling so largely to Southern mills. In this way they would be able to produce at a lower cost and have practically a home market for their products. The Spartanburg-Greenville section of South Carolina, from Revolutionary days to the Civil War, was a center of iron making and many people of that section have inherited a mechanical trend of



Textile Machinery Warehouse Under Construction at Spartanburg for Draper Corporation, Hopedale, Mass.

thought from their forebears of olden days.

The Standard Looms plant is now getting organized, at this writing using only about 25 per cent of its total capacity of pig iron. When going full blast it will employ about 600 men, nearly all of whom will be Southern. It is to be expected that the textile machinery manufacturers of New England are watching the experiment with anxious eyes; for if it succeeds it will mean that these old companies, with millions invested in their huge plants, will be forced to abandon a considerable portion of those investments in order to establish Southern factories.

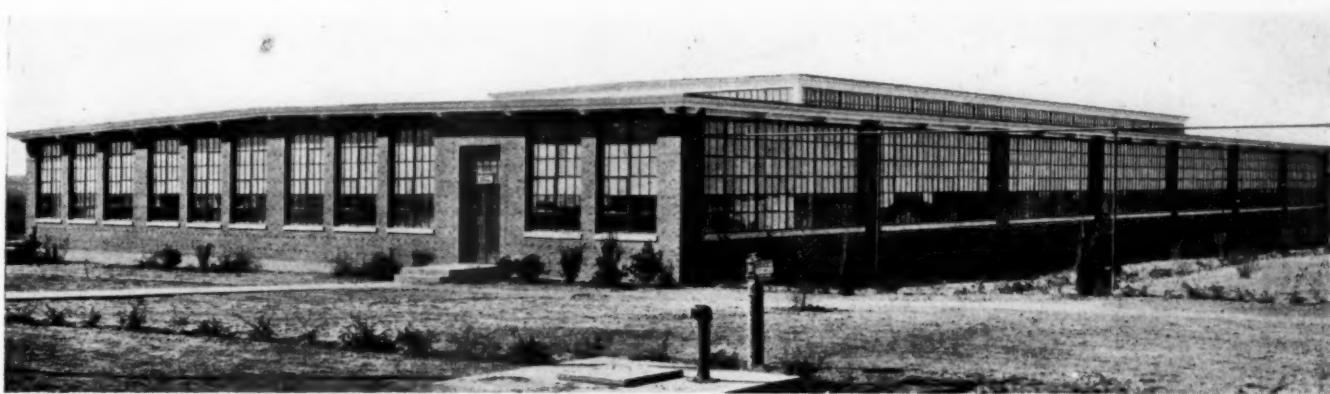
In announcing in April the establishment at Spartanburg of a branch for

sales purposes, the Draper Corporation stated that its Atlanta warehouse, which has been operating for a number of years is to be continued, but that the textile industry in the South has grown so extensively that it was decided to build a second Southern warehouse at Spartanburg to serve the Piedmont section especially and thus double the corporation's storage capacity and facilities for serving the industry of the entire South.

Besides these complementary units of the textile industry located at Spartanburg there are such plants as Stewart Bros., makers of paints, and Suspension Bearing Company, makers of roller and thrust bearings used in well-known makes of automobiles; also machines

and machine tools of many sorts. Many manufacturers in the East will say that it is impossible to find the skilled labor in the South necessary for such work, but this plant is competing with the bearings made by the great roller bearing companies of the North and East. Except for the superintendent, the shop foreman and one other man, every man in the plant has been trained from a green farm hand in the last two years; the plant's output has grown 800 per cent in one year from May, 1928, to May, 1929.

The basis for the development in this section is exceptionally good rail service for distribution of the products, plus all the other advantages of a typical Southern location.



Southern Plant of the Yarns Corporation of America

Cotton Spinning Industry for April

Cotton Growing States Reported 67 Per Cent of Active Spindle Hour Operation by All Mills

According to preliminary figures of the Department of Commerce, 35,258,490 cotton spinning spindles were in place in the United States on April 30, of which 30,924,184 were operated at some time during the month, compared with 31,103,998 for March and 30,950,340 for April, 1928.

The aggregate number of active spindle hours reported for the month was 8,861,-

202,997. During April the normal time of operation was 25% days (allowance being made for the observance of Patriot's Day in some localities) compared with 26 for March, 23% for February, 26½ for January, 25 for December and 25½ for November. Based on an activity of 8.88 hours per day the average number of spindles operated during April

was 38,878,567, or at 110.3 per cent capacity on a single shift basis. This percentage compares with 109.3 for March, 110.7 for February, 111.6 for January, 99.1 for December, 108.1 for November and 94.8 for April, 1928. The average number of active spindle hours per spindle in place for the month was 251.

During April, the cotton growing states, which mean practically the South, with 53 per cent of the cotton spindles installed in all of the mills of the country, reported 58 per cent of the active spindles, and 67 per cent of the spindle-hour operating time of the entire industry.

COTTON SPINNING SPINDLES IN PLACE, ACTIVE NUMBER AND OPERATING TIME.

State	Spinning Spindles—		Active Spindle Hours for April	
	In place April 30	Active during April	Total	Average per spindle in place
United States	35,258,490	30,924,184	8,861,202,997	251
Cotton Growing States.....	18,784,230	17,941,948	6,006,048,590	320
New England States.....	15,008,764	11,680,946	2,595,186,669	173
All Other States.....	1,465,498	1,301,290	259,967,738	177
Alabama	1,765,276	1,699,768	543,399,431	309
Connecticut	1,118,588	1,060,670	245,670,453	220
Georgia	3,092,298	2,990,434	1,004,429,861	325
Maine	1,061,716	849,848	186,242,640	175
Massachusetts	9,003,282	6,672,412	1,433,171,508	161
Mississippi	177,386	147,450	50,806,968	286
New Hampshire	1,410,438	1,062,452	218,410,024	155
New Jersey	376,936	368,420	59,884,550	158
New York	723,092	618,788	129,463,659	179
North Carolina	6,210,118	5,914,596	1,968,625,933	317
Rhode Island	2,297,836	1,919,052	466,534,414	203
South Carolina	5,589,374	5,373,702	1,914,313,272	342
Tennessee	613,668	580,814	209,262,015	341
Texas	281,908	246,944	71,600,464	254
Virginia	709,056	679,254	147,485,862	208
All Other States.....	825,518	739,580	189,911,943	230

\$250,000 Waco Hotel Annex

Waco, Tex.—General contract for erecting an annex to the Hilton Hotel here for the Hilton Hotels, Inc., Dallas, has been awarded to the J. E. Johnson Construction Co., Waco, while the Levy Plumbing Co., Dallas, was awarded plumbing contract and the Hodges Electric Co., Waco, electrical contract. The new addition will be 12 stories, to contain 100 rooms, and will cost approximately \$250,000, exclusive of furnishings. Milton W. Scott, Waco, is the architect.



Missouri-Kansas-Texas Railroad Yards and Industrial District at Dallas, Texas

Railroad Development Representatives As Factors in Southern Upbuilding

INDUSTRIAL and agricultural promotional development work is recognized as one of the essential factors in the creation of business for railroads and public utilities. Today practically every railroad has an organized development program and a corps of men employed in such work, and "the development man" has done much in dotting the South with industries of many kinds, manufacturing and distributing houses, and he has helped to bring about an industrial growth amazing in its rapidity and magnitude.

Prominent among the pioneers in this field of constructive activity in the Southwest is T. L. Peeler, industrial commissioner for the Missouri-Kansas-Texas Lines, at Dallas, who took a hand in industrial development in an area when there was little to encourage one in such a task. Originally associated in Mississippi with fruit and vegetable growers in connection with the shipping, grading and marketing of their products, he was recommended by a Chicago commission merchant to traffic officials for the Missouri-Kansas-Texas Lines, at St. Louis, to handle the road's general agricultural and industrial development, and

accepted the position in his confidence that there was a great future in development work. Mr. Peeler was sent to Texas and was told to make his own position, his duties not being definitely outlined. He reported to the general freight office at Dallas and after some discussion was given a new title, Industrial Agent.

Mr. Peeler's first activities in Texas began when a great deal of land adjacent to the "orphan branch" of the M. K. and T. had been cut over. The lumber had been shipped out, and in order that the land should not be abandoned and go backward, it was put into cultivation, at his direction, for the raising of truck. Canneries were established, and the "Homeseeker" idea was brought into play, and towns were established other than the usual sawmill stations. Home-seekers were taken into this cut-over land and encouraged to farm it. There were other sections on the railroad that needed just such encouragement in the way of producing some revenue for the community and these activities were carried into the different phases of development work, such as encouraging certain communities along the company's lines

to raise watermelons, sweet potatoes and varieties of crops, poultry and dairy development and the operation of agricultural trains. The larger manufacturers began to establish branch plants for manufacturing, and distributing houses established branch agencies, which required warehouses and factory buildings, and all these, in very many cases, were negotiated by the industrial department. Thus, Mr. Peeler played the part of development agent for both agriculture and industry, creating tonnage for his railroad wherever he worked.

Mr. Peeler's ability having been recognized, he had been raised to the position of industrial commissioner for the entire line, having both agricultural and industrial development under his jurisdiction, with eight or 10 traveling men reporting to him. When the war broke out, he was chosen chairman of the industrial division in Texas and also was one of the committee of seven handling industrial matters for all lines in the Southeast, South and Southwest. After the war, when the roads were returned to private ownership, the railroads intensified their industrial development in

the Southwest. Demand that factories be located close to the supply of raw material, and the rapid development of the Southwest, caused the distributing houses to see the necessity of putting more branch houses closer to the center of distribution, and many factors united to intensify industrial development work, but the part played by railroad companies in the development of cities industrially probably is not realized or appreciated by the average citizen.

Dallas, Texas, affords an illustration of this in what has come to be known as the "M-K-T Lines Close-in Industrial District." Ten years ago, the "close-in" industrial area of Dallas was composed of 25 or 30 city blocks adjacent to the retail section, generally a huddle of narrow streets, old shacks and dilapidated structures. Today, this area, with widened streets, and commodious alleys down which railway tracks stretch for block on block, is covered with imposing structures housing large wholesale and jobbing concerns and small manufac-

ting concerns. In this close-in industrial district, perhaps 75 per cent of the available sites have been occupied. Almost every sort of industry is represented in this district, from a great grain elevator, wholesale grocery and hardware houses and an airplane company down to a couple of small distributing houses. About 85 separate industries occupy individual buildings and warehouses that make up the district. New concerns are constantly being located and it is expected that the district in time will be 100 per cent occupied. In fact, the section is now known as the "million dollar industrial district," and actually the investments already there represent several millions of dollars. The development in Dallas is typical of the development in San Antonio, Houston, Fort Worth, Oklahoma City, Tulsa and other cities on M. K. and T. lines.

And Mr. Peeler is typical of the farsighted industrial agents who have contributed in large measure to the upbuilding of the South.

Validation Florida Canal Bonds Sustained by Supreme Court

Government Plans \$4,221,000 Expenditure for Construction and \$125,000 Annually for Maintenance of East Coal Canal

The Florida State Supreme Court has sustained the validation by the Volusia County District Court of a \$1,887,000 bond issue voted last year by eleven counties of the state for the purchase of properties of the East Coast Canal Co. and to acquire the necessary rights-of-way. The project is being handled by the Florida Inland Navigation District, of which Charles F. Burgman, Daytona Beach, is chairman. Mr. Burgman advises that should nothing interfere with present plans, he will call a meeting of the Commission for June 3 in Jacksonville to arrange details for advertising the bonds and invite bids for their purchase. Upon the sale of the bonds, negotiations for the completion of the purchase of the East Coast Canal from the Kelsey interests will follow.

As has previously been detailed, the canal properties will be turned over to the Federal Government, which plans to expend \$4,221,000 to make the canal 8 feet deep at average low water and 75 feet wide at the bottom, making it navigable from Jacksonville to Miami. In addition it is understood that the Government will expend \$125,000 annually for maintenance. Upon the acceptance by the United States of a deed to the properties, it is thought the Government may consent to improve present conditions preparatory to the completion of permanent improvements. It is anticipated

that navigation in the canal will be far better, beginning with next fall, than it has ever been.

The Florida Inland Navigation District was created by Act of the Legislature of 1927 and in the same year the President approved an Act of Congress providing funds for the construction of the waterway and maintenance. In June, 1928, the District voted the bonds, which were validated by the Volusia County Court in August of the same year. The Dade County States Attorney objected to the validation proceedings and took the case to the Supreme Court where it was reviewed and a decision rendered by Justice J. B. Whitfield, with none dissenting.

Meanwhile the Legislature enacted a bill validating the bonds, which was signed by Governor Doyle Carlton on April 19 of this year and on May 7 the effect of this action was argued before the Supreme Court.

Contract for Cement Handling Plant

Memphis, Tenn.—The Marquette Cement Manufacturing Co., Chicago, has awarded contract to the S. & W. Construction Co., Memphis, for building a cement storage and packing plant terminal at the foot of Poplar avenue on the Wolf River Canal here.

Shipping Rare Flowers From Texas

Somewhat in contrast with more utilitarian products which the South sends to other sections, a remarkable flower industry has been built up in Texas and rich, sweet-scented Cape Jasmines lend beauty and fragrance to more and more homes in the North and the East and the West each year. Described as "the South's liveliest, most fragrant flower," the jasmines are grown at the flower farm of Mrs. J. W. Canada, La Porte, Texas; also for years there has been a general shipping business by growers at Alvin, near Houston. Boxes are sent by mail and the flowers continue fresh, with a background of rich dark green leaves.

As described by Mrs. Canada, one bush produces literally hundreds of flowers, so that comparatively few plants are required to supply a large trade. On "Jasmine Farm" are about 100 bushes, planted along the fence row, between pecan trees; "yet, we can gather perhaps 50,000 buds for shipping from these trees," Mrs. Canada says. One grower at Alvin, from his own acreage and from others whose buds he buys, shipped 35,000 buds early this year, in wholesale trade to florists in other sections. Demand for the flowers reaches peak about Decoration Day, May 30, but this year the flowers were ready for shipment in time for Mother's Day, and the early demand was gratifying to the growers.

Flowers are gathered as the green buds begin to show white and are packed at once in wet paper, to assure freshness in transport. An hour or so after the covering is removed, the flower is in full bloom. Shipments are made by parcel post, timed for arrival on any date desired.

Does Not Represent Manufacturers Record

Information to the MANUFACTURERS RECORD that a man giving the name of Billie A. Peck has been soliciting subscriptions and collecting money without authorization is followed by a statement from the National Publishers Association that Peck has somewhat of a record in that line. It is reported he has been active throughout much of the South. Peck is not an agent of the MANUFACTURERS RECORD or authorized to represent it in any way. He is described as about 36 years old, about six feet tall, with brown hair and gray eyes, and claims to be a World War veteran.

W. T. Lockwood, McLennan County Auditor, Waco, Tex., receives bids June 10 to grade four rural mail routes in the county having a total of 46.06 miles.

Genesis of the Fight Against Southern Cotton Mills

[In 1902 the MANUFACTURERS RECORD published a lengthy article, afterward put into pamphlet form, showing the origin of the movement at that time—even more prominent than it is at present—to try to decry and belittle the cotton mill development of the South. The facts then given were so exactly in harmony with the movement which is now under way, seeking to discredit the cotton mill interests of this section and to create hostility on the part of the operatives to the mill managers, that it seems appropriate to republish in serial form what we issued 27 years ago. The facts given are just as timely today in a study of this subject as they were then. Space does not permit the publication of the full article in any one issue and, therefore, we are running it in serial form over two or three weeks. In order to fully understand the whole situation, it will be necessary to follow closely each article.—Editor MANUFACTURERS RECORD.]

[Editorial From Manufacturers Record October 9, 1902]

Part II.

ONE of the most prolific contributors to the agitation for legislation in Southern States against the employment of children in industry recently made this confession: "If there is an outside influence back of this agitation for a child-labor law I do not know where it is." That confession was undoubtedly sincere. It revealed the state of mind of quite a number of tender-hearted men and women who have, in response to the stirrings of pure, altruistic philanthropy, permitted themselves to become unwitting sponsors in the South for an agitation originating elsewhere and based upon absolute material selfishness. The confession and its revelation justify the presentation of a series of facts which, it is believed, will tend to bring the agitation down to its proper level; for the facts will show that—

1. At a time when competent New England observers recognized with appreciation the contentment and happiness of operatives in Southern cotton mills, their realization of the mutual interests of themselves and their employers, and their American disinclination to welcome the labor-union idea, and when the textile industry in the South was being steadily reinforced by investments of Northern capital, a small portion of the New England press and a limited element among Massachusetts cotton manufacturers cultivated among New England operatives, threatened with a reduction of wages, the notion that competition of Southern mills was responsible for their plight, and that long hours and low wages were the basis of the competition.

2. Contemporaneously, movements were made through the Congress of the United States and national labor organi-

zations, whereby the local New England agitation directed against the South was given a wider character.

3. Under the spur of the discussions thus provoked agitators from New England and elsewhere were found in the South preaching the doctrine of discontent, organizing strikes, and finally, with partial failure in that direction and the obscuring by time of original motives, appealing to a public sentiment, that frequently acts without thinking around all sides of a question, to bolster, under the guise of humanitarianism, efforts to obtain legislation against "child labor."

The whole campaign was calculated to disrupt the friendly relations between Southern employees and employers, and in so far as there was success in that, to embarrass the Southern textile industry.

The latest phase of the propaganda has naturally excited more attention than any other. It has appealed to women's clubs, to ministers' associations and to politicians, with, of course, a body of the daily press taking cognizance of it. Into at least two conventions of the same church organization has been introduced the question of legislation against "child labor." One body, in Georgia, made the mistake of endorsing it, contrary to the historic position of the church. The other, in Texas, promptly and properly refused to recognize the bantling. Conventions of two different parties in three States have endorsed the proposition, and demagogic has thus been supplied with ammunition.

Hence, there is additional reason for sketching, without reference to the merits or demerits of the question of legislation against the employment of children, the development of this movement, so momentous for the South.

The Family Scarecrow Displayed

There had been sporadic agitation of the question of the employment of children in two or three Southern States. There had been agitation for national interference of a general character between employers and employees. But for a connection of the two agitations with special reference to Southern cotton mills, it is unnecessary to go back farther than five years. The condition at that time of Southern operatives, which had been a matter of considerable note for New Englanders, was well described by President Sanford of the Sanford Spinning Co. of Fall River, Mass., in the early part of 1897, as follows:

"I find the operatives are good native American whites. They very quickly adapt themselves to the work, are eager to learn, happy, contented, with no tendency to strike or to join labor organizations. They want work, are industrious, and are proud of the mills they work in."

But such an opinion did not prevent the emergence from the closet of the family crawboogle on April 28, 1897, through a paper by Curtis Guild, Jr., editor of the Commercial Bulletin of Boston, before the annual meeting of the New England Cotton Manufacturers' Association. His text was "Competition with New England Mills." In his paper he voiced a sentiment prevailing in a narrow circle that the great advantage possessed by the South in the textile industry was its cheap labor, and he said:

"We are handicapped by the lower wages of the South. * * * Southern labor is not unintelligent labor. * * * Not only are we handicapped by the difference in wages of labor, but by difference in the laws regulating labor. South of Mason and Dixon's line laws prohibiting the labor of children under the age of fourteen are either a dead letter or they do not exist. Neither in the Southern States

is there any material restriction of the hours of labor. It is cheap labor and long hours rather than cheap cotton that is draining capital from Massachusetts to Georgia."

Mr. Guild, searching for a remedy, found the following suggestion:

"We cannot grow cotton in New England. We cannot force the Georgia cracker to strike for Massachusetts wages; but we can compete in those branches of the industry where material counts for little and brains count for everything."

That sentence had the smack of that self-reliance which has been the glory of New England at home and abroad. But that magnificent spirit seemed lacking in the following suggestion from Mr. Guild:

"Now we cannot grow cotton in New England; neither can we make local taxation of mill property uniform; neither can we force the Southern cotton operative to strike for higher wages if he is content to work for his present remuneration. There are two things, however, that legislation can accomplish—it can make a national regulation of the age of labor; it can make a national regulation of the hours of labor. Such legislation has long been demanded by the labor unions; it has even received the endorsement of the National Association of Wool Manufacturers. It might be necessary to amend the Constitution to do this, but the Constitution has been amended before."

There have been charges that the expenses of labor agitators in Southern mill towns have been paid by a small clique of New England millmen. The proof of such charges is difficult, and has never been presented. A shadow of implication in that direction was given, however, in the Fall River (Mass.) correspondence of Textile America in the early winter of 1897. Referring to the desire of the textile labor leaders to visit Southern communities, it said:

"They would like very much to have the mills pay the expenses of their trips, and in return they believe they can benefit them by advising the help of the true state of things with relation to the competition met by the mills because of their Southern competitors. The few manufacturers who have spoken of the matter say they think it is the duty of the labor leaders to keep themselves posted on the condition of their trade elsewhere, just as the manufacturers have to. While they would like to have some of the leaders go South, they feel that it is for the interest of the unions quite as much as it is for the manufacturers to send them, and they would like to see the unions take the initiative. A year or more ago Secretary Howard of the Spinners' Union went South and organized a union, but the work has not been followed up very closely. Secretary Howard has practically severed all connections with the union here, and for the moment there is no one anxious to seek public assistance in carrying the wage war into Southern mill centers."

In spite of this record of a desire of the manufacturers "to see the unions take the initiative" "in carrying the wage war into the Southern mill centers," the

probabilities seem to be against any such direct financial understanding between the traveling agitators and New England millmen, as has been charged. New England horse sense is not inclined to pay for work that it can have done for nothing, even if a desire for the work existed. But while hearers of Mr. Guild could not force the Southern cotton operative to strike for higher wages if he is content to work for his present remuneration, conditions could be induced at home which, without enmity against the South or intent to injure it, would encourage and sustain the agitators in an endeavor to make the Southern operative discontented with his remuneration.

How the Spur Was Given

As a matter of fact, simultaneously with an effort, originating in New England and confessedly for the benefit of New England cotton mills, for a constitutional amendment permitting Congress to regulate the hours of labor, systematic efforts were begun to disturb the friendly relations of Southern operatives and their employers, and as a feature of those efforts, legislation against the employment of children in cotton mills was attempted in three or four Southern States. These efforts were clearly and distinctly traceable to an agitation on the part of certain New England mills against the competition of Southern mills; it was nursed by agents sent from the North, and the endeavor was made to give them the appearance of being fathered locally by pure philanthropy and a sympathy not possessed of all the facts in the case and ready to disregard the practical difficulties. Indeed, a representative of the labor unions in one State sought to have secrecy maintained as to the influence which this party represented.

It is not believed that Mr. Guild knew of any set determination against the Southern cotton mills. The feeling of Massachusetts millmen was for themselves rather than against the South. It would be hardly fair to credit some of the elements concerned in it with knowledge of its intent; for it involved both an evolution and a design.

The stages may be traced as follows:

During 1897, when discussion of the progress of the textile industry in the South had reached such proportions as to lead the Boston Journal to send its Washington correspondent on a tour among the Southern mills, the Arkwright Club had a special committee studying mill conditions in the South. Contemporaneously with the publication of the Boston Journal's correspondence, the cotton manufacturers of Fall River voted on December 8 to reduce the wages of their employees 11 1-9 per cent, the reduction to go into effect on January 3, 1898. The reason given for the reduction was the

competition of other mills outside Massachusetts, including the Southern mills, the statement being made that "the cost of labor in the Southern mills is very much lower than in New England, and they claim advantages in water-power, taxes, cheap transportation and cheap cotton, as well as in longer hours of labor."

A Skeptical Reception at Home

Decided skepticism about this reason was manifested. The Fall River Herald said: "This is not the first time that the cotton-factory employes have been threatened with reduction in wages because of longer hours and lower rates a great deal nearer home than are Georgia and the Carolinas." It found Northern overproduction as discouraging as Southern competition, and added: "If every Southern mill were wiped out today there are evidences which go to show that the factories in the North would still be loaded down with a troublesome accumulation."

The Brockton Times said: "The belief is prevalent hereabout that many of the cotton mills of the South are either owned or controlled by the men who control the mills in Fall River. If this be correct, the regulation of wages paid in Southern mills would appear to be in their own hands."

The Philadelphia Record, pointing to similarities between Philadelphia and Fall River, said: "It is generally admitted among cotton manufacturers that in certain lines the Southern mills are establishing prices against which it is difficult to compete, but there are very strong hints that the Fall River manufacturers have largely used the argument of Southern competition to explain wage-cutting that may be due to other causes. * * * It was suggested that the reduction may have been caused by a desire to re-establish profits at the expense of the mill laborers."

The Arkwright Club's Action

Despite such comments, the action of the Fall River manufacturers was followed a week later by the promulgation of a report from a special committee of the Arkwright Club which attributed to Southern competition the conditions in New England mills. In this report reference was first made to a report made by two members of the club who had visited the South. These two gentlemen, discussing the advantages claimed by the South, said:

"In our opinion the cheap labor, long hours and freedom from legislative interference are the chief advantages, and the others are unimportant and of doubtful value."

"So far as we could learn, there is no disposition to organize labor unions. The American operatives do not take kindly to this imported idea, and the oppor-

tunity afforded them to earn regular wages is too highly prized to be trifled with. They are just as anxious for the success of the mills as the owners, and there is in their attitude toward their employers a loyalty which is in striking contrast to the antagonism which exists and is encouraged among Northern operatives."

"There is a decided opposition on the part of manufacturers in the South to any restrictive labor legislation whatever, and the alertness with which they combine to oppose and discourage it is worthy of attention."

"It does not seem probable that any restrictive labor legislation will be passed for several years to come."

Commenting upon these statements and the figures accompanying them, the Arkwright Club committee said:

"We do not think that the astounding difference in the labor conditions at the South and at the North in cotton mills has ever been more emphatically and more lucidly set forth than in this statement. It will be seen at once by every manufacturer that this item, and this item alone, is sufficient to account fully for all the difference between the prosperity of Southern manufacturing and the adversity of Northern mills; between the activity in the construction of new mills at the South and the stagnation of a similar industry in this part of the country."

The committee said that "we cannot expect any improvement to benefit us from a change of the conditions in the South for years to come," and insisted that the remedy must be the work of Northern manufacturers in reducing in some form the earnings of their own operatives. It asserted that the cotton manufacturers and the operatives were not the only ones concerned in any struggle into which they might be forced, and that disaster to cotton manufacture meant great injury to all wholesale and retail trade, to railroads, to artisans of every kind, to truck farmers and to the whole community. It advocated legislation repealing the laws placing the hours of labor in Massachusetts at fifty-eight, inasmuch as employers' loss was "beyond a doubt created in part by the Southern competition of longer hours," and it added:

"Meanwhile it is not possible for manufacturers to wait for slow action of legislatures. Manufacturers must act for themselves and endeavor to introduce in their own mills conditions more nearly resembling those of their Southern competitors."

"They cannot lengthen the hours of labor, but they can reduce the wages of their operatives, not, indeed, to such an extent as to make them equal with those of Southern operatives."

"But unless they can be reduced somewhat, it is obviously impossible for Northern manufacturers to produce goods except at a loss."

"The real trouble with labor laws and labor unions is not so much the inherent evil of them, but the fact that they do not bear equally upon the industry in all parts of the country."

Lines of the Campaign

It is not the purpose of this article to attempt to dispute the manifest misapprehension in the position assumed in this report of the Arkwright Club—a misapprehension which Mr. Edward Atkinson attempted to impute to the South when he told the Atlanta Chamber of Commerce: "You are under the delusion about cotton manufactures that low wages, long hours and child labor will give you a permanent advantage." It is not even designed to discuss in this article the intent of the report, except in so far as motives became apparent of themselves, though a clue, perhaps, was given in the memorial to the Massachusetts legislature in the spring of 1898, representing the desire of the manufacturers that the hours of labor in the State should be raised at least to the point where they were in every other New England State. The desire in the article is to trace the effects.

These were manifested upon three broad lines:

1. The introduction in the House of Representatives by an ex-president of the Arkwright Club, coincident with the publication of this report of the Arkwright Club committee, of a resolution providing for the submission of an amendment to the Constitution authorizing Congress to regulate the hours of labor in the country.

2. The passage of a bill providing for the appointment of an industrial commission to investigate labor conditions.

3. Activity centering in Fall River and reinforced by the American Federation of Labor in organizing labor troubles in Southern mill centers, taking the form ultimately of agitation against the employment of children in the mills.

Plan of the Industrial Commission

First, as to the industrial commission. It was in session, after its appointment in the early summer of 1898, off and on for three years. It secured a mass of testimony, some of it quite valuable to students of economic conditions in the United States; it brought some startling though hardly representative views to the surface, and among the recommendations was a suggestion of the regulation by all the States of the working day for persons between the ages of fourteen and twenty-one, and the prohibition of the employment of children under fourteen years in any capacity in factories. The commission was hardly taken seriously at first, except as its hearings might contribute to industrial unrest. When it was appointed in 1898 there were warnings that its ultimate results might be to the South's disadvantage, and the hope was expressed that Mr. Ellison A. Smyth, one of its members from the South, might be able to keep the South on guard. That there was no mistake in this estimate of Mr. Smyth was shown

by his vigorous criticism of the commission in January, 1899, when he said:

"The industrial commission is the outgrowth of New England jealousy at the South's rapid advancement in cotton manufacturing. With many natural advantages in favor of this part of the country, it is only natural that it should have outstripped its Northern rival."

"The Southern people should interest themselves in this commission. Its final recommendation will affect this part of the country vitally. They can work much harm or put it on a fair ground of competition."

"Northern people do not understand why the Southern operatives can work longer hours for less money than their New England brothers. They must be brought South so that they can see the state of affairs for themselves. New England is working very hard to strip the South of its advantages in cotton manufacturing, which is in reality the cause of the commission's creation, although it is nominally a general investigating board."

Shortly after those words were uttered a subcommittee of the industrial commission went to Boston for the express purpose of investigating cotton-mill conditions. Invitations to meet the subcommittee were sent to the manufacturers, but not one appeared, all having excuses. The explanation of this failure to enlighten the industrial commission was that the cotton-mill men were so busy and had no reason to complain. Be it remembered, though, that Southern competition had been no whit relaxed. Subsequently, the subcommittee made another trip to Boston and discovered an advocacy of uniform federal legislation as to labor.

That Constitutional Amendment

That was the end sought in the resolution looking to a constitutional amendment fathered on January 5, 1898, by Mr. William C. Lovering in the House of Representatives. He had some backing in that. The labor committee of the Massachusetts legislature in the spring of 1898 made a report agreeing that the National Congress should have power to fix the hours of labor, but advising no formal memorial, inasmuch as the congressmen from that State were fully advised about the matter. About the same time a committee of the Rhode Island legislature declined to recommend that Congress pass a law equalizing the hours of labor, as the right of Congress to do so was questioned. But, nevertheless, it called attention to the fact that a resolution had already been passed favoring a constitutional amendment giving Congress the power. The resolution was also favored by the Textile Federation in session in Washington in December, 1900, and a renewal of disturbances at Fall River in the summer of 1901 led to further agitation on the subject.

(To be concluded next week.)

Virginia Matching Alabama in Marketing Diversified Farm Products at Home and Abroad

Georgia and Other States Making Progress

WRITING in regard to an article appearing in a recent issue of this paper about the way in which the industrial interests of Alabama are co-operating with the farmers for the creation of a market for diversified products, Hon. G. W. Koiner, Commissioner of Agriculture and Immigration of Virginia, says:

"I have read this article with much interest, and note that the subject was thought through on sound business principles by those seeking to promote diversification in production which could only be tenable by giving the marketing of such products the same consideration.

"In this connection I beg to say that Virginia was the fifth state in the Union to establish a Division of Markets within its Department of Agriculture. This was in 1915. Today the idea of co-operation in selling is permeating all the large agricultural enterprises of this State. The most outstanding development of the Market Division today is Federal-State inspection and grading, whereby the use of standard grades for farm products is established and put into use. Fruits and vegetables were the first on which voluntary inspection was provided, and the service is now extended to poultry and eggs, hay, wool, tobacco, and work is being done looking forward to providing this service on peanuts.

"In connection with the subject of diversification and the fact that the marketing question becomes more complex where this system of farming is practiced, it is interesting to note that co-operation in marketing in Virginia is making headway where enterprises are widely dispersed as well as in sections where the enterprise is intensive. According to recent reports, more than 100,000 pounds of poultry was shipped in carloads for approximately 2000 individual producers in six counties of southside Virginia, through the co-operation of the producers county agents, railroads and the Division of Markets. Some of these producers are reported to have brought poultry 40 miles for shipments co-operatively in carlots. Prices averaged approximately 6c per pound over the local prices offered producers, most of which were based on trade instead of cash. In one day's loading, 22,500 pounds of poultry were received from 344 different individuals. This is an illustration of overcoming one of the handicaps to co-operation peculiar to the farmers' business—that of the large number of individual operators.

"Efforts have been made, and are being made, by many organizations in Virginia

cities and counties to boost the use of Virginia-grown products, and we believe such work as has been cited above in the field of standardization, placing special emphasis on quality, will so contribute to the prestige of the home-grown product that there will be little difficulty in selling at home.

"I am enclosing a recent report which goes more into detail along the subject of my letter. You will note the increasing interest of the buyer is an encouraging feature in this work as it progresses."

The report to which Mr. Koiner refers gives a great deal of interesting information in regard to the work of the Division of Markets. Among other things he says:

"As reported by Director J. H. Meek, the division of markets of the Virginia Department of Agriculture has candled and graded over 10,000,000 eggs since last July, the equivalent of 75 carloads, while also in the 1928-29 season it certified 34 hatcheries with capacity of 750,070 eggs every 21 days, and inspected 616 flocks with 131,883 birds. The quantity of tobacco inspected or graded was approximately twice the amount for the previous year, and hope is entertained that the grading service may be extended in peanuts.

"Under the State, or Ring, inspection, 373,313 barrels of apples were inspected in the latest season, an increase of about 50 per cent over the previous season, and 2876 carloads of apples were Federal-State inspected, nearly 300 per cent increase. Sixty-six hundred and sixty cars of potatoes were Federal-State inspected, compared with 5432 in the previous year, and some sweet potatoes, cabbage and peaches also were inspected.

"More than 111,200 pounds of poultry were shipped in recent months from Halifax, Pittsylvania, Mecklenburg, Brunswick, Campbell and Charlotte counties in co-operation with county agents, and attractive prices were established before the poultry was delivered. Hope is entertained that standards may be developed for livestock and preliminary work is being done on that line, while the co-operative plan now is used for selling wool largely through the efforts of county agents and representatives of the division of markets.

"Effective work has been done in testing heavy scales and gasoline pumps and 39 per cent of the pumps tested were declared to be inaccurate, approximately 29 per cent being short and 10 per cent being too generous."

Hon. L. G. Hardman, Governor of Georgia, writes:

"I have your letter calling my attention to the article by a member of your staff in regard to agricultural conditions in Alabama. I have read this with much

interest and shall read it again. I thank you very much for calling my attention to it and I hope I may be able to present something to our people that will be helpful to the farmers.

"The situation of the agricultural people in Georgia might be considered almost desperate at this time. The people need encouragement and a plan by which they may receive a net revenue.

"I am interested in quite an acreage of farms and doing everything in my power to suggest plans by which the farmers can live from their labor. There are a number of farmers in my own neighborhood who are making progress but there are a great many who are lacking in plans and foresight to know just what is best to do.

"The article on crime in your May 2 issue is the best I have ever read on this subject."

Earl Page, Commissioner of Mines, Manufactures and Agriculture of Arkansas, writes:

"I am glad to note that the people of Alabama have taken hold of the agricultural problems in a practical way. One of the greatest difficulties the farmers in any community have is the apparent disregard of the local community, as well as the State at large, for home grown products. This is also true with regard to industry. The result of this indifference, neglect, or antipathy is unnecessary transportation, to the detriment of all concerned.

"We have a condition in Arkansas very similar to the condition previously existing in Alabama, and it is a matter that should receive attention. When sentiment becomes crystallized favorable to patronizing home products, and there are local markets created for home grown products, it is not a matter of great difficulty to work out the details in a practical way."

Eugene Talmadge, Commissioner of Agriculture of Atlanta, writing on the same subject, says:

"I believe that Georgia can make excellent showing along the line of diversification, inasmuch as the Market Bureau of the Georgia Department of Agriculture, during the last eighteen months made sales totaling \$1,802,739. Included in these sales were 636 solid carloads of hogs; 438 cars of corn; 206 cars of poultry; 304 cars of sweet potatoes; 95 cars of hay; 87 cars of velvet beans. Also a number of other products were sold in carloads and less than carload lots.

"The dairying, the hog and poultry business in Georgia, are making great strides and the dairying industry has attracted such interests as Armour & Company, who has established a creamery in Dublin and are buying much milk from the Georgia farmers, and the J. C. Penney Company which is also buying much Georgia milk."

IRON, STEEL AND METAL MARKET

Production Maintained in Steel— Regular Orders and Special Contracts Received

Pittsburgh, May 27—[Special.]—The steel trade continues in very active condition. There is little if any diminution in the flow of orders, as a total, and there is apparently no decrease in production except such as may be caused by physical conditions, producing units falling after such a spell of hard driving. It is not clear, however, that there is any decrease at all in the total volume of steel being produced.

The outstanding feature of the steel situation, of course, is the absence of the regular seasonal decline, which on an average begins as to buying early in March and as to production late in March. Each week of sustained production adds to the abnormality of the showing.

Some special business of importance is coming out, apart from the regular flow of orders from manufacturing consumers. Following placing of 130,000 tons of line pipe, reported a week ago, for the natural gas line to run from the Monroe field, Louisiana, to Birmingham and on to Atlanta, orders have been placed for a line to run from the same field west to Shreveport, La. As just placed the business amounts to 125 miles of 20-inch, Youngstown Sheet & Tube Company to furnish about 75 miles and the A. O. Smith Corporation to furnish the balance, the latter being in electrically welded pipe. An additional 15 miles is likely to be required, making somewhat over 25,000 tons.

The Baltimore & Ohio Railroad has ordered 4000 freight cars, requiring close to 60,000 tons of steel; while, subject to approval by the Shipping Board, contracts for nine ocean vessels have been let, which will require about 60,000 tons of steel. Fabricated structural steel awards reported during the last week total 53,000 tons, the largest job being an elevated highway in New York City requiring 22,500 tons.

Automobile production made a new high record in April, total production of cars and trucks, United States and Canada, being 633,557, or 3 per cent over the March output. The only statistical sign of any slowing down in the industry is found in this 3 per cent, when in the last five years the average increase March to April has been about 10 per cent. Several of the large makers, including Ford and Chevrolet, have schedules for heavier production this month than last. The interesting question is

whether, after such very heavy production, the seasonal decrease will be sharper than usual. Production in the four months of the year has been just one-third above what would be expected by projecting the rate of increase during the last five years and allowing for usual seasonal variation.

Finished steel prices are likely to show few if any changes for the third quarter. The heavy demand of the last few months, whereby shipping orders for several of the finished products have piled up at the mills, might suggest higher prices, but the producers are in the main rather well satisfied with present prices and ordinarily this is approximately the worst time of year to advance prices. A year ago there was not a little slipping of prices, which events showed was quite unnecessary as the mills had an unusually heavy engagement during the third quarter.

As a matter of fact the American Sheet & Tin Plate Company (Steel Corporation) has reaffirmed its sheet and tin plate prices, for third quarter in sheets and second half in tin plate, so that the matter is settled for those lines. A slight change is made in blue annealed sheets, an additional basing on 13 gauge being set up, which puts the lighter gauges of blue annealed up \$1 or \$2 a ton. There is little talk as to bar, shape and plate prices, prices on wire products are virtually continued, and in strips the advances contemplated are only in the event that the recently announced advance in semifinished steel is held on actual business. Thus far it has been practically on paper, there being no steel to spare beyond contracts and perhaps little inquiry.

Scrap is a shade easier. Pig iron remains dull.

Prices Static in the Metals With Production Less

New York, May 27—[Special.]—Generally dull conditions continue among the non-ferrous metals. There has been no really important happening since the announcement of a curtailment in copper production by 10 per cent ten days ago. At that time it also came to light that one prominent copper producer had cut its output considerably the first of April, while another large producer started curtailing the first of May.

Meanwhile price levels of the various metals are not much changed from a week ago. It will probably be an unusually active summer among the various industries of the country. The steel industry expects the least summer depre-

sion in years. Manufacturers who use copper as their raw material have enough orders for finished goods on books to keep them working at the present rate well into the fall.

Large quantities of the metals are still being used in the automobile industry, there having come as yet no slump in the general rate of automobile production. The May pace is equal to April and April was a record. Freight cars orders so far this year have equalled those of the entire year of 1928. Much non-ferrous metal is used in freight car construction, such as for bearings.

With the official opening of summer only a month away no signs of a falling off have appeared in the steel industry, though as a rule the decline from late March to mid-July is 20 per cent. This summer promises to be the most active one in the steel industry.

All April statistics pertaining to the metals have been issued and digested. Weekly statistics pertaining to zinc ore are more favorable in that sales are increasing and production is declining, though the latter is still several thousand tons above sales. The price of zinc ore has been holding firm to \$44 per ton. Though 18 zinc mines are said to have been shut down in the tri-State district recently, many of those operating are said to be working on night shifts, more being thus engaged than since 1927.

The copper market has been extremely dull, though on Wednesday there appeared two attractive inquiries, one from the Western Union Telegraph Company for 2,500,000 pounds of refined copper, or wire, or both, and another from an unnamed fabricator of copper for 3,500,000 pounds. Some interpreted these inquiries as the forerunners of another buying wave.

Practically only three copper producers have been selling: The American Smelting & Refining Company, the American Metal Company and the Nicholas Copper Company. These are custom smelters who smelt and refine copper for the smaller mining companies who do not own refining plants. The large copper producers, who maintain complete equipment—from mines to refineries—are still out of the market.

The undertone of copper is easy, partly because of steady declines in standard copper on the London Metal Exchange, and partly because of the long spell of dullness in this country.

The news is out that the Kennecott Copper Corporation has bought the Chase Companies of Waterbury. The former controls an annual output of refined copper of nearly 1,000,000,000 pounds,

while the latter, when its new plant at Cleveland is completed, will have a capacity of 150,000,000 pounds of fabricated brass and copper products such as wire, sheets, etc., a year. This is the most important combination since the Anaconda Copper Mining Company bought the American Brass Company. The Chase Companies were the only large independent copper fabricators remaining.

Business in lead has been very quiet for weeks, but producers are confident that another buying wave is about to appear. Consumption has been heavy. Prices are 6.80c, East St. Louis, and 7c per pound, New York. The gradual decline of London prices has been the only disturbing factor.

A wide range still exists in slab zinc prices, or from 6.55c to 6.80c. The large producers who hold to the highest figure are in fact out of the market. The bulk of sales is being made at 6.60c. As in lead, zinc demand is accumulating and it is about time for another buying wave.

Tin prices fluctuate around 44c per pound, or close to the low point of the year. Less than 100 tons of Straits tin is being sold daily whereas the normal turnover is 250 tons. Most of the tin now being consumed was bought at over 50c per pound. Consumers wish to make sure, before buying again, that prices are at bottom.

Some Orders for Pig Iron But Demand Is Under Production

Birmingham, Ala., May 27—[Special]—Steady operation of the steel mills, on a basis of 85 per cent of capacity, is noted while the pig iron market is still considered sluggish. Many spot orders for pig iron are reported but the aggregate demand is under the production and some iron is yet going to the yards. Tonnage of surplus foundry iron is great, but not altogether alarming. Base price of pig iron is still given at \$15.50, No. 2 foundry. Survey of the iron melting concerns indicates that better conditions may be looked for during the coming month. The United States Pipe & Foundry Company will place in operation its No. 2 shop at North Birmingham; it can produce around 200 tons of pipe products a day at capacity. It is understood that several lettings were recently taken on by the United States Pipe and that other business has been allocated to this district. The American Cast Iron Pipe Company, also, has received some business for products other than pipe; for instance, a good order for columns, which are pipe without the bells, for the new cotton mill of the Goodrich Tire & Rubber Company at Thomaston, Ga., and other business.

Cast iron pressure pipe production is

estimated to be still on an 80 to 85 per cent capacity basis. However, no announcement has been made of the buying of fill-in tonnages. Steady delivery is being accepted on orders placed some time back. While lettings have not been altogether slow, the aggregate is but sufficient to warrant statement that there will be no increased production in the near future.

Stove foundries in the Southern territory are active and one or two are receiving much business, one of the newer and smaller foundries having made a trade contract for shipping to all parts of the country. The melt of iron in this industry at its best is not very extensive but furnace interests watch the demand. The larger machine shops and foundries are still busy with contracts, some calling for heavy machinery. The Goslin-Birmingham Machine & Foundry Co. is working on more than six Webb cotton presses, also producing sugar machinery and heavy chemical plant parts.

Steel fabricating shops continue busy. The Ingalls Iron Works Co. is fabricating 635 tons of structural steel for the Phosphoric Products Co. building in Tampa. Virginia Bridge & Iron Company is shipping out eight big girders, 116 feet long, each, for railroad bridges on the Central of Georgia. Several buildings of proportion are reported in sight and steel will be required in quantity. There is a good demand for sheet, plate, structural and other shapes, except rail, wire and wire products. Cotton ties are being produced.

The coal companies of Birmingham have practically closed with the railroads for the twelve months' requirements in coal, effective July 1. In almost all cases, a large minimum tonnage is reported. The coal trade has been sluggish now for a year and a half but the use of coal

crushing and burning machines in industrial plants and by others is likely to bring about an improved demand. Coke is unchanged, independent producers operating to near capacity with orders being filled from a number of smaller foundries in the Middle West.

Scrap iron and steel is slow, the iron market having more or less influence. There is some heavy melting steel and a little tonnage of other items moving, but on the whole the market is far from being active. Prices are unchanged.

Pig iron and iron and steel scrap quotations are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$15.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.00; iron of 2.75 to 3.25 per cent silicon, \$16.50; iron of 3.25 to 3.75 per cent silicon, \$17.00.

OLD MATERIAL.

Old steel axles	.....	\$17.00 to \$18.00
Old iron axles	.....	17.00 to 18.00
Old steel rails	.....	13.00 to 14.00
Heavy melting steel	.....	10.50 to 12.50
No. 1 cast	.....	13.00 to 14.00
Stove plate	.....	12.50 to 13.00
No. 1 railroad wrought	.....	10.00 to 11.00
Old car wheels	.....	11.00 to 12.00
Old tramcar wheels	.....	12.00 to 13.00
Machine shop turnings	.....	7.00 to 8.00
Cast-iron borings	.....	7.00 to 8.00
Cast-iron borings (chem.)	.....	13.00 to 13.50

Half-Century of Electric Light

The Artistic Lighting Equipment Association will hold its mid-summer meeting at the Chelsea Hotel, Atlantic City, N. J., June 5, 6, 7 and 8, during the exhibition and convention of the National Electric Light Association, which is celebrating the fiftieth anniversary of the invention of the electric light. One of the general topics up for discussion will be, "Rising Cost of Selling and Distribution in the Lighting Equipment Industry," followed by a discussion on "Modern Art in the Lighting Equipment Industry."

Contract Let for \$1,500,000 Plate Mill

Gulf States Steel Company Has Let Two Major Contracts in Expansion Program

Gadsden, Ala.—Two contracts have been awarded by the Gulf States Steel Co. in connection with its proposed \$5,000,000 improvement and enlargement program here, as recently announced by W. H. Coverdale, president, New York and Birmingham. The Mackintosh-Hemphill Co., Pittsburgh, Pa., has been awarded contract for the erection of a plate mill to cost about \$1,500,000, with a production of 25,000 tons of plate monthly. It will be electrically driven, with roller bearing machinery, two furnaces and shears, one three-high stand of rolls capable of producing plate up to 72 inches in width and five-eighths of an inch thick. Ground will be broken at

once, it is said, and structural material for the building will be supplied in the Birmingham district. The building will be 80 by 1,000 feet, of steel construction.

A contract was awarded a few weeks ago to the United Engineering & Foundry Co., Pittsburgh, for building a 40-inch blooming mill to cost about \$1,250,000, and contract is expected to be awarded by June 15 for the construction of a sheet mill to cost \$1,500,000. The building will be 80 by 600 feet, while an annealing and galvanizing mill will be 80 by 77 feet, and a warehouse 80 by 1,000 feet. Upon the completion of the program, the company will employ approximately 800 additional men.

AVIATION, AIRPORTS AND AIRWAYS

\$500,000,000 for Aviation Fields

In a speech by F. H. Frankland, manager of technical service, American Institute of Steel Construction, Inc., New York, the first annual convention of the airport section of the Aeronautical Chamber of Commerce of America, Inc., recently was given an estimate that the next year and a half will see \$500,000,000 expended in airport and landing field construction, about \$300,000,000 of which will be spent in 1929. In the 18-month period ending January 1, \$300,000,000 was spent to provide such facilities.

"Permanence of existing airport locations and facilities may be questionable," said Mr. Frankland, "and this factor should have careful consideration in selecting the type of construction for the various buildings. It cannot be stressed too strongly that the future of aviation rests on the ground, as it is there that planes must take off and land," he said, "and foresight in construction will save millions of dollars in the near future. At the Tulsa (Okla.) Air Terminal," he said, "will be built for present needs, three steel-framed structures, the central one to be known as the Midway Building, providing terminal facilities, such as ticket offices, waiting rooms, baggage rooms, a restaurant and a roof garden, as well as a large hangar unit. Two other hangars of similar size and layout, will flank the terminal building for the present. Eventually all of the land surrounding the large landing field will be utilized for hangars and other steel frame structures of similar appearance."

South On Transcontinental Route

Of importance to the South is announcement of the organization of Southern Skylines, Inc., to operate a southern transcontinental and Atlantic coast air-mail passenger, mail and express service. Plans call for operation between New York and Los Angeles on a 46-hour schedule, by way of Philadelphia, Washington, Danville, Va.; Atlanta, Birmingham, Jackson, Miss.; Shreveport, Dallas, Fort Worth, Midland and El Paso, Texas; Phoenix, Ariz., and San Diego, Cal. The coastal line will operate from New York to Washington as part of the transcontinental route, and from Washington to Miami by way of Richmond, Raleigh, Columbia, Augusta, Savannah and Jacksonville, while an additional line is contemplated from Chicago to New Orleans via St. Louis, Memphis and Jackson, and a further connecting route from Cincinnati to Dallas by way of Louisville,

Nashville, Memphis, Little Rock and Texarkana. The selection of this southern route bears out a prediction made through the MANUFACTURERS RECORD by members of the National Advisory Committee for Aeronautics, over a year ago, that transcontinental routes would go through the South because of better flying conditions in all months of the year than by any other routes.

Aircraft Production, \$43,800,000

Aircraft valued at \$43,812,318 were produced in the United States in 1928, according to the aeronautics branch of the Department of Commerce, the output including 4346 airplanes, seaplanes and amphibians. In addition, 164 aircraft were rebuilt or reassembled, valued at \$507,670. The production in 1927 was estimated by the Census Bureau as 1888 airplanes, valued at \$12,224,979, and 107 seaplanes, \$2,280,020, compared with 1125 airplanes, \$7,448,679, and 61 seaplanes, \$1,422,348, in 1926.

Curtiss Plant at Baltimore

The Curtiss-Caproni Corporation has leased 25 acres of land on the northwest portion of the municipal airport at Baltimore, adjacent to the waterfront, where it will erect a plant for the manufacture of aircraft, principally large seaplanes, costing, with equipment, more than \$1,000,000. When in full operation, the plant will employ between 1500 and 2000 workers. Frank H. Russell is president of the company, also vice-president of the Curtiss Airplane and Motor Company, with headquarters at 39 Broadway, New York City.

\$3,300,000 Aeronautics Concern

Change of name is announced by Southern Airways, Inc., Montgomery, Ala., to Southern Air Express, organized to engage in the transportation of mail, passengers and express, and to establish and operate aeronautical schools, to build airplanes, etc. Authorized capital is \$3,300,000. Among those interested are W. A. Gunter, Mayor of Montgomery; R. E. Selbels, Fourth National Bank; B. P. Crum and W. K. Pelzer, Alabama National Bank; Arthur Pelzer, W. A. Bellingrath and Frank McPherson, First National Bank; J. M. Hobbie, Hobbie Motor Company; L. W. Martin, Alabama Power Company; J. M. Jenkins, W. W. Doe and Dr. John Blue, and Harry Williams of Paterson, La.

Atlanta Aircraft Corporation

Organized by a group "who have the interest of Atlanta and Georgia at heart, to the extent of putting Georgia and the Southeast on the map in the air," the Atlanta Aircraft Corporation has been formed, with capital of \$300,000 subscribed and underwritten. The concern is building a tri-motored, low-wing, Prudden-Whitehead all-metal monoplane, eight place, to have three Wright Whirlwind five-cylinder engines of 150 horsepower each, or three of seven cylinders with 225 horsepower each. The speed is about 135 miles an hour and the plane will carry radio and telephone connections. The board of directors includes: Robert Gregg, president and treasurer; George H. Prudden, vice-president; Edward Whitehead, vice-president and secretary; C. Howard Candler, N. B. Whitcomb, S. Candler Dobbs, Jr., Henry C. Heinz, William C. Wardlaw, Winship Nunnally and N. Baxter Maddox.

Montgomery (Ala.) Airport Plans

Information from the industrial department of the Chamber of Commerce of Montgomery, Ala., discloses determination to establish there "the best airport in the United States," as Jesse B. Hearn expresses it. The airport will contain 926 acres, three miles from the city, on a paved highway and on the Seaboard Air Line Railway. The field will have a grade of less than 1 per cent, and without hazards. Equipment at the start will include a heavy steel hangar, 150 by 150 feet; machine shops, passenger depot, executive offices, waiting room, complete clubhouse, and modern gas and oil systems, waterworks, sewerage and all conveniences. Arrangements have been made for four additional hangars, 150 by 80 feet. The field will be completely lighted and all buildings will be flood lighted.

Miami to Buenos Aires

Early extension of the present air service from Miami to Cristobal, in the Canal Zone, to Columbia, Ecuador and Peru and Buenos Aires, in the Argentine, has been announced by Walter P. Jacob of Pan American-Grace Airways. The proposed service will cut the time between New York and Buenos Aires from 18 days to seven and, when night flying is instituted, to three. Tri-motor Fokker and Ford planes will be used for the overland flights and Sikorsky amphibians over the maritime sections.

TEXTILE

New Rayon Plant for Hopewell, Va.

American Chatillon and Tubize Artificial Silk Corporations to Build Plant

The American Chatillon Corp. announces that negotiations have been consummated by that company and the Tubize Artificial Silk Company of America, both of New York, for the organization of a new company to build a plant near the Tubize plant at Hopewell, Va., for the manufacture of rayon by the acetate process. The new plant will employ the processes of the American Chatillon Corp. and will be owned jointly by the two companies. Its output will be on the basis of 7500 pounds daily of 75 denier yarns, which will be multi-filament and confined to five sizes no larger than 75 denier.

The Tubize Artificial Silk Company of America, for some time has been considering the production of yarns by other than the nitro-cellulose process which it now employs at Hopewell, the general attitude of the company being to employ new processes where they have been demonstrated effective, and to use them in its expansion program. The new plant at Hopewell will be a replica of the plant under construction at Rome, Ga., for the American Chatillon Corp., at a cost of \$4,000,000.

The Rome plant is nearing completion, having begun the production of acetate of cellulose some time ago. Viscose production will soon begin and is expected to steadily increase until 100 per cent is reached in December. Patents for the chemical processes, mechanical spinning, recovery of solvents, etc., which the American Chatillon Corp. now exclusively uses in rayon manufacture, were originally owned by the Ruth-Aldo Co., which sold its rights and licenses in Italy

to La Soie de Chatillon and for the United States and Canada to the American Chatillon Corp. The Ruth-Aldo Co. has now agreed to give its rights and licenses for all countries, with the exception of Italy, to the American Chatillon Corp., the Italian rights and licenses still being controlled by the La Soie de Chatillon.

The Rome (Ga.) plant and the Italian plant are said to be the only two plants in the world manufacturing rayon by these patents. The new plant at Hopewell will be the third to use the patents. Agreements signed by the American Chatillon, Corp., the Tubize Artificial Silk Company of America and La Soie de Chatillon call for the reciprocal exchange of new discoveries, inventions, patents, etc., regarding acetate of cellulose and its spinning. It is expected that groups to be formed abroad and in which the American Chatillon Corp. will have a 50 per cent interest will have the same agreement.

Directors of the American Chatillon Corp. have elected the following officers: Rufus W. Scott, chairman of the Board and in special charge of sales and finance; Dr. Marco Birolli, vice-chairman of the Board and member of committee on foreign negotiations; Dr. D. M. Balsam, president and chairman of the committee on foreign negotiations; Ing. Ugo Mancini, first vice-president in charge of the operation of plant and member of the executive committee; W. W. McLellan, second vice-president; W. B. Gellard, secretary and assistant treasurer in charge of purchases; M. E. Tanham, treasurer.

Johnson Silk Mills Incorporated

Lexington, N. C.—The Johnson Silk Mills, Inc., with an authorized capital stock of \$100,000, has been chartered for the establishment of a mill here to finish warps, yarns, cloth and other fabrics. Edward S. Johnson and Anthony J. Downey, New York, and W. O. Burgin, Lexington, are the incorporators. The company, identified with Jas. G. Johnson & Co., New York, has purchased a silk mill here from the Grimes Fabrics Co., of 144 looms. No additions are contemplated at present. Mr. Johnson is president of the new company and Mr. Downey, vice-president.

Contract for Walcott and Campbell Mill

Gulfport, Miss.—General contract for the construction of the first unit of the new mill here for the Walcott & Campbell Spinning Co., Inc., has been awarded to Wagar & Co., of Atlanta, Ga. The main building will be 2 stories and basement, 412 by 107 feet; picker building, 2 stories and basement, 105 by 75 feet, and a warehouse one story and basement, 205 by 102 feet, all of reinforced concrete and structural steel, with brick walls and steel sash and doors. It is also planned to build concrete platforms and towers. Robert & Co., Inc., Atlanta, are the engineers.

Contract for Republic Mill Addition

Great Falls, S. C.—The Republic Cotton Mills have awarded contract to the Fiske-Carter Construction Co., Greenville, S. C., for the erection of the proposed addition to their mill here, the building to be 107 by 265 feet, one story, of standard mill construction. Approximately 18,000 spindles will be installed for the manufacture of cotton yarns. J. E. Sirrine & Co., of Greenville, are the engineers.

Plans South Carolina Textile Mill

Clearwater, S. C.—The United Merchants & Manufacturers, Inc., Homer Loring, president, Boston, Mass., recently organized for the purchase of a group of Southern mills, including the Seminole Mills here, is having plans prepared by Charles T. Main, Boston, for a new mill at Clearwater, the building to be of reinforced concrete and steel, with brick walls, tar and gravel roof, and steel sash and doors. Contract is expected to be awarded soon.

Rock Hill Mill Contract Let

Rock Hill, S. C.—General contract has been awarded to the Brown-Harry Construction Co., Gastonia, N. C., for erecting a mill unit for the Rock Hill Printing & Finishing Co., for which the Lockwood Greene Engineers, Inc., Charlotte, N. C., are engineers. The mill building will be 225 by 478 feet, 2 stories, and a boiler room, 52 by 75 feet, 2 stories, all of reinforced concrete and steel construction, with brick walls and stone tile partitions, the latter to be furnished by the Southern Brick & Tile Co., Charlotte.

Contracts for Collins & Aikman Mill Addition

The Collins & Aikman Corp., Philadelphia, Pa., which is building an addition to its mill and village at Roxboro, N. C., awarded contract for the steel work to the Carolina Steel & Iron Co., Greensboro, N. C. General contract work is being carried out by the owners under the supervision of George W. Kane, Greensboro, and in addition to contracts previously announced, the York Heating & Ventilating Co., Philadelphia, Pa., has contract for unit heaters; David Lupton & Sons Co., Philadelphia and Atlanta, for sash; Crawford & Slaton Co., Charlotte, N. C., for sprinklers, and Huntingdon & Guerry, Greenville, S. C., for electric wiring. Engineering details are being handled by the Engineering Department of the Collins & Aikman Corp.

HIGHWAYS AND MOTOR TRANSPORT

Tennessee County Building System of Market Roads

Expending \$1,000,000 for 150 Miles of Year-Round Highways—Important State Roads Also Under Way

By F. S. PARRIGIN.

Fayette County, Tennessee, has under way a road program providing for construction of about 150 miles of improved roads, to be known as a County Bond Road System. In 1928 voters approved two bond issues for a total of \$1,000,000, the bonds bringing a premium of \$32,000. Surveys were started in May, 1928, and in June contracts were awarded for 40 miles of grading and for several creosoted bridges.

Roads embraced in the system are primarily market roads and so planned as to furnish means of travel in the principal agricultural sections of the county, connecting with the state inter-county-seat system at various points. When the system is complete, Fayette County will have 150 miles of roads serviceable throughout the year. The state has finished 42 miles of high type paving

and has plans for about 60 additional miles in the county. After completion of the state and county paving programs it is estimated there will remain more than 1000 miles of earth roads. The surveys aim to secure the best grades and curves possible for each community served, maximum grades being generally 5 per cent and curvature limited to 4 degrees. Construction is to a fair standard and considered adequate for all needs of a county system. Bridges are of creosoted wood timbers, designed to carry safely loads of 10 tons at high speed. The gravel macadam surface is wide enough on main roads to carry two way traffic. On less important roads the surface is 10 feet wide, but ample earth shoulders are provided.

About half the construction work included in the program was let to contract.

The remainder is being performed by county forces, eight heavy tractors and a like number of road machines having been purchased. All bridge work was let to contract. Grading on team sections averages 5000 cubic yards a mile. On sections constructed with tractors grading will average 2000 cubic yards a mile. The entire gravel hauling was let to contract on a ton-mile basis. On the more important roads 2000 tons of gravel was used per mile, and on less important roads 1000 tons a mile is used. A total of more than one mile of bridge work will be constructed on the entire county system.

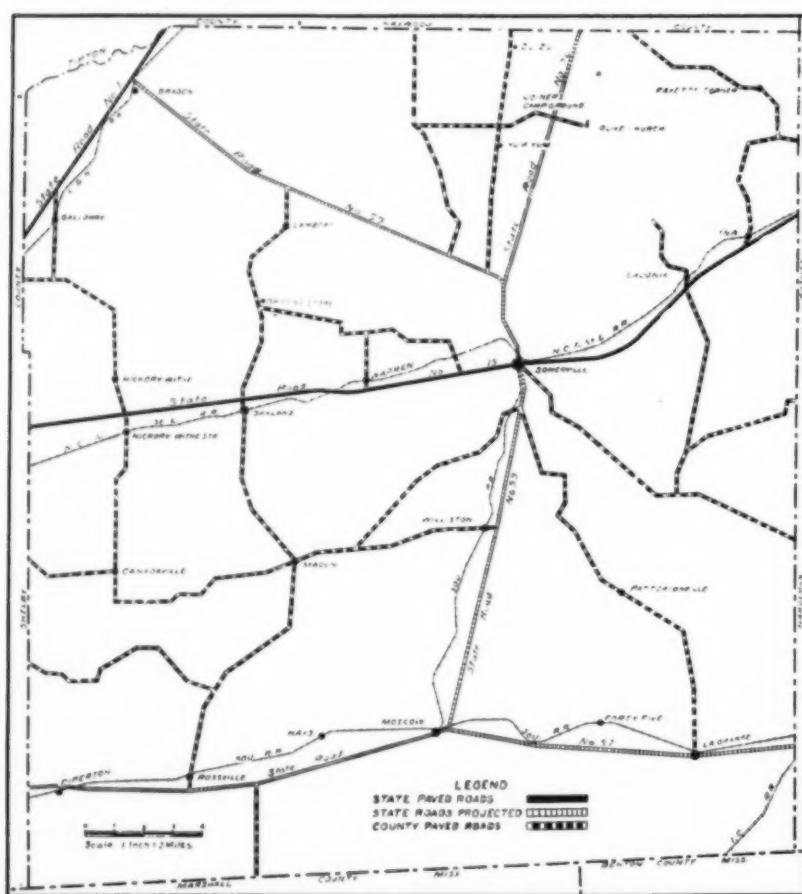
Actual construction began in July, 1928. Since then more than 50 miles of roads have been graded, more than 3000 lineal feet of bridges built, and 8 miles of surfacing placed on the roadway. It is believed the county will be able to complete most, if not all, of the roads in the system this year.

The county highway system is being constructed by the following officials and firms: Commission—A. M. Langdon, chairman, Somerville, Tenn.; W. T. Loggins, secretary; J. A. Johnson; J. C. Baxter, and W. H. Wilkinson; F. S. Parrigin, engineer. Contractors for grading—Y. Y. Phillips, Nashville, Tenn.; W. D. Bunker Construction Co., Memphis, Tenn., and F. G. Hall, Martin, Tenn. Contractors for bridges—J. F. Mullins, Pine Bluff, Ark. Contractor for gravel hauling—Nelson Brothers, Memphis, Tenn. Toncan metal culvert pipe, etc., furnished by Choctaw Culvert & Machinery Co., Memphis. Gravel surfacing material furnished by Memphis Stone & Gravel Co., Memphis, Tenn. Lumber and piling from Ayer & Lord Tie Co., Chicago.

National Grange to Have Essay Contest On Highway Safety

Washington, D. C.—A nation-wide safety essay contest is to be conducted by the National Grange, has been announced by L. J. Taber, National Master. The subject is "Safety on the Highway for Children and Adults." All members under 18 years of age in any of the 8000 subordinate granges scattered throughout the United States will be eligible to enter the contest, 126 state and national prizes being offered for the best papers.

The Highway Education Board is co-operating with the National Grange in the enterprise. The competition will close on July 4, by which date, it was announced, all essays must be in the hands of the subordinate lecturers of the various granges.



A System of Roads Designed to Provide Adequate Highways to Connect All Principal Agricultural Districts of the County

Bids Asked on Four Alabama Road Projects

Montgomery, Ala.—Bids will be opened June 18 by the Alabama State Highway Department for constructing four road projects, embracing 16 miles of concrete in Tuscaloosa County, .54 mile in the same county, 4.73 miles of slag or gravel in Etowah County and a slag or gravel road in the same county from the state road to the proposed tire factory and rubber reclaiming plant near Gadsden of the Goodyear Tire & Rubber Co.

Bids Soon on Four Bridges

Frankfort, Ky.—Bids for the construction of four bridges provided in the recent sale of \$10,767,000 bonds for building and acquiring 15 bridges in the state, will be called June 15, according to J. S. Watkins, state highway engineer. The four proposed bridges include one across Green River at Spottsville, across the Cumberland River at Smithland, across the Tennessee River at Paducah and across the Cumberland River at Burnside.

Texas County Considering \$1,500,000 Road Bonds

Sulphur Springs, Tex.—A petition asking a county-wide election on a bond issue of \$1,500,000 for the construction of roads is being considered by the Hopkins County Court and action on the proposal is expected soon. Funds from the proposed issue would be used to build a north and south road through the county, beside a large number of lateral roads.

\$450,000 Houston Bridge Planned

Houston, Tex.—Tentative plans have been made for constructing a \$450,000 bridge two blocks south of the present McKee street bridge. Funds of \$10,000 will be requested of the city council by H. L. Shaw, city engineer, to make a survey and draw plans for the structure. The bridge will have a viaduct over the bayou and underpass under the Southern Pacific tracks.

\$1,250,000 Road Bonds Sold

Dallas, Tex.—Bonds in the amount of \$1,250,000, a portion of an issue of \$6,950,000 authorized for the construction of roads and bridges, have been sold by the Dallas County Commissioners' Court to a syndicate headed by the J. E. Jarratt Co., San Antonio, at a premium of \$7487.

Chestertown, Md.—Kent County citizens have voted bonds in the amount of \$1,000,000 for constructing approximately 50 miles of lateral roads, two issues being involved, one of \$900,000 for concrete and

\$100,000 for slag roads. The work will be done under the supervision of the state and county engineers, in co-operation with the Board of County Commissioners.

25 Miles Roads to Cost \$475,000

Mobile, Ala.—Contracts have been awarded by the Mobile County Board of Revenue and Road Commissioners for the construction of seven road projects covering approximately 25 miles to cost about \$475,000. The Mobile Construction Co. was awarded contract for four projects involving 18.24 miles of one-course concrete, at \$337,576, while Sullivan, Long & Hagerty were awarded contracts for two projects involving 6.20 miles of one-course concrete, at \$119,606, and J. Hilliard Hancock for one project covering 1.1 miles of asphaltic concrete on cement concrete base, to cost \$28,274.

Missouri Lets Contracts for 244 Miles Roads

Jefferson City, Mo.—Contracts have been awarded by the Missouri Highway Commission for constructing 70 road projects covering a total of approximately 244 miles. Of the total, 44 projects embrace a total of 166 miles of concrete, while 16 projects call for a total of 62 miles of gravel and 6 projects for a total of 14 miles of graded earth construction.

Bids on 31 Miles Roads

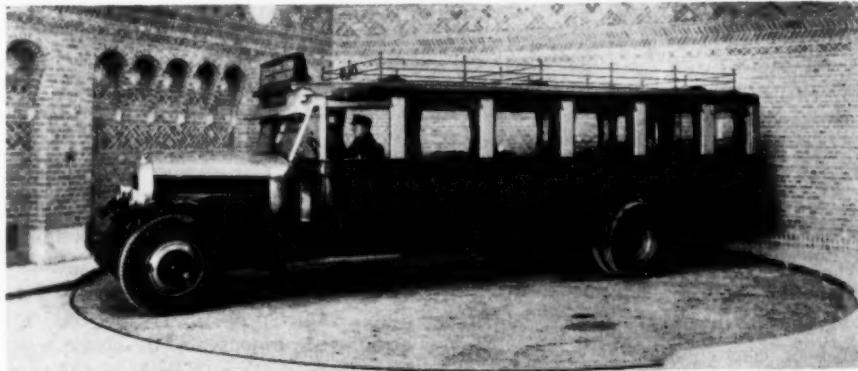
Baton Rouge, La.—Bids will be opened June 4 by the Louisiana Highway Commission for the construction of four road projects covering a total of approximately 31 miles. The work will be in Bossier, Rapides, St. Landry and Feliciana parishes.

Novel Features in Motor Coach Station of Baltimore and Ohio

Two years ago the Baltimore & Ohio Railroad introduced an innovation in travel convenience to New York—train connection motor coach service. This service carries passengers and hand baggage between three motor coach stations and the trainside; it met with such success that more adequate station facilities became necessary and a larger and modern motor coach station was opened in the heart of New York, on Forty-second street opposite the Grand Central Terminal and the Commodore Hotel. Every travel requirement is provided at the ticket office and travel bureau. The lighting fixtures consist of tall standards set against the columns and ceiling fixtures, and strike a new note in modern lighting. At the baggage counter, hand baggage is checked direct to seats or berths in the train. A clock controlled by radio from the United States Radio Station at Ar-

lington is corrected twice daily, and is so arranged that departure of the train-connection motor coaches is announced by an indicator. The waiting room is spacious and is furnished with leather upholstered chairs and divans. There is a direct entrance to the subway from the main lobby, affording convenient connection to all parts of New York, Brooklyn and Long Island, also to neighboring hotels.

One of the important improvements in service made possible by this new station is that motor coaches now receive and discharge passengers inside the station. A double driveway enters from Forty-first street, so that coaches drive direct to the waiting room platforms. After discharging passengers the coaches are turned on an electric turntable and are ready for the return trip to the trainside.



Turntable Showing Coach Being Turned to Leave 42nd Street Station of B. & O. in New York

NEW AND IMPROVED EQUIPMENT

Patent for Boom Feature

Patent has been granted to the Parsons Company, Newton, Iowa, trench excavating machinery, to cover the offset boom feature used in construction of its full crawler dumper. This device permits the boom to be shifted off center, so that it can dig within a few inches of a line of poles, curb or other obstructions, and permits using a trench machine to dig between a curb and a line of poles.

The telescopic boom is made of plated double channels, reinforced with angles,

and is mounted on a steel frame or boom carriage which moves up and down on the main frame channels. At the top, the carriage is supported by two arms, pivoted on main machinery frame; at bottom, by two steel shoes which fit over the main frame channels. These shoes embody steel rollers which lessen the power necessary for raising and lowering the boom. Three sizes of buckets, 15½, 18 and 24 inch, with sidecutters for widths up to 42 inches, can be obtained as standard equipment with heavy boom, and special light boom can be furnished for 12-inch width.

to determine in advance the stresses in all parts, and a floor that will recover instantly 100 per cent of its deflection, due to live load when that load is removed.

Genfire Enters Steeldeck Field

A steeldeck roof has been added to the line of the Genfire Steel Company, Youngstown, Ohio, known as Rigiddeck; it is made in six-inch widths of Armeo

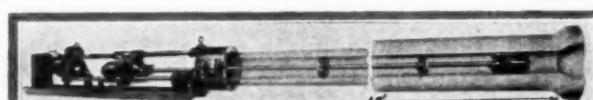


A Parsons Model for Trench Digging

Hutto Grinder for Navy

The Navy Department has purchased a Hutto grinding machine and grinders, to grind 12, 14 and 16 inch naval guns up to 61 feet in length, from the Hutto Engineering Company, Detroit, Mich. In an initial test, the Hutto grinder removed an average of .015 stock from a gun barrel 48 feet long with a bore of 14 inches, and it is said that there was not an error anywhere up to .001 inch after the grinding was completed.

The equipment supplied to the Navy by Hutto uses a standard Hutto model MP machine with 7½ h. p. motor with a 3 h. p. reciprocating motor. The machine has a 6 foot stroke, with electric controls for the reciprocating knock-offs. A Hutto tandem grinder with 5 inch stones at either end is used.

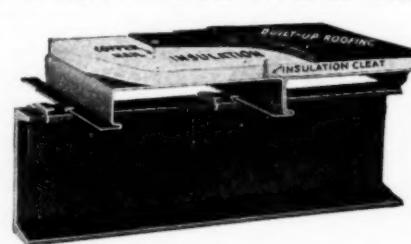


(Illustration shows Hutto Grinder which removed average of .015 stock from gun barrel 48 feet long.)

"Battleship Deck" Floor

Lee H. Miller, chief engineer of the American Institute of Steel Construction, has started investigation of a new type of floor construction, known as "battleship deck" floor. This is a steel plate floor, which it is estimated will give greater strength and stability to build-

ings, reduce the loads on the columns and therefore be especially valuable in skyscraper construction. Mr. Miller is quoted as saying that, by the use of steel plates and ordinary structural steel beams, it is proposed to develop a welded steel floor which will be better than any floor that has been used before, and will stand every service that it may be subjected to—a floor in which it is possible



Steeldeck Roof Section

ingot iron, each of which locks rigidly to those adjacent to it. The roof is designed to present an unbroken, smooth surface to receive insulating materials, and without any perforations of the steel. Each section is formed by the pressing of a patented self-locking rib section into a strip of Armeo iron, giving rigidity to the section and providing bearing points to rest on the purlins of the building. Each rib is an I-section.

Other roofdecks made by Genfire are Ferrodeck and I-plates, the former for replacing outworn roofs on old buildings, while I-plates come in rigid two-foot sections, each with ribs formed in them at six-inch intervals.

TO ERECT 800 HOUSES

Baltimore Firm Acquires Site for Two Story Row Structures

The Frank B. and Robert A. Bready Co., Baltimore, has acquired 48 acres of land on Washington boulevard, near Grinnalds avenue, for a residential development of 2-story, porch front houses, of 6 rooms each. Plans provide for the ultimate construction of 800 dwellings on the tract, which adjoins a development of 107 dwellings already completed by the company. Construction is now under way on 11 stores and 19 dwellings, which will be of brick, with Carey roofs and equipped with hot water heating systems of the American Radiator type. Weiskittel enamelware is being used throughout. Plans and construction are being handled by the company, which is also building 60-foot streets and 15-foot alleys, in co-operation with the city, and installing sewers under city specifications.

CONSTRUCTION DEPARTMENT

and

NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Ala., Mobile—H. B. Taylor, Mgr., Aviation Corp. of America, 4436 Pershing St., Fort Worth, Tex., reported, announced expansion program for entire Southern routes of Southern Air Transport, Inc. Tom Hardin, V. Pres., Fort Worth, a subsidiary, involving expenditure of approx. \$30,000,000; \$250,000 at Mobile municipal airport; establish flying school, taxi and aeromotor service and new hangars here; other cities include El Paso, Big Spring, Amarillo, Fort Worth, Dallas, Waco, San Antonio, Houston, Brownsville, Tex.; New Orleans, La.; Montgomery, Ala., and Atlanta, Ga.

Ark., Little Rock—City plans establishing airport.

D. C., Washington—Washington Air Terminals Corp., Incorporated; C. Bascom Slemp, Southern Bldg.

D. C., Washington—Atlantic Seaboard Airways, Inc., Philadelphia, Pa., issuing 50,000 shares capital stock (without par value) through C. E. Moran & Co., 1716 H St., N. W., Washington; Maryland corporation; organized to acquire or operate properties for their purpose active participation in various branches of aviation industry; has acquired all common capital voting stock and over 98% of preferred stock of International Airways, Inc., Washington, owning 100% of capital stock of Potomac Flying Service, Inc., Hoover Field, South Washington, Va.; proceeds to be used in acquiring additional properties, provide additional funds for enlargement or operations of present subsidiaries and for other corporate purposes.

Ga., Atlanta—Pitcairn Aviation, Inc., Land Title Bldg., Philadelphia, Pa., erect \$60,000 hangar at Candler Field; 150 x 140 ft., accommodate tri-motor, all-steel passenger planes, service departments, etc.

Ga., Atlanta—Southern Skylines, Inc., William G. McAdoo, Chmn., Bd., Bk. of Italy Bldg., Los Angeles, Calif., and Investment Bldg., Washington, D. C., organized to operate transcontinental air mail route, New York to Los Angeles, via Atlanta, Fort Worth and El Paso, Tex.; James C. Edgerton, Gen. Mgr., National Press Bldg., Washington, D. C.

Ga., Atlanta—Atlanta Aircraft Corp., George H. Prudden, San Diego, Calif., let contract to Flager Co., Red Rock Bldg., for \$35,000 hangar, at Candler Field; conc. footings, struc. steel framing, steel doors; sash and metal roofing, by Truscon Steel Co., Youngstown, Ohio; private plans. 4-25

Ga., Columbus—City voted \$1,235,000 bonds, \$30,000 for airport. See Financial News Columns. 2-21

Ga., Rome—U. N. Howell, Mgr. and Treas., Eagle Stove Works, elected president of Rome Airport Corp.; increase capital stock, \$15,000 to \$50,000; establish modern airport, West Rome.

La., Natchitoches—City plans airport.

La., New Orleans—Mid-Continent Air Express, Philip Philbin, Jr., Gen. Mgr., organizing to operate air lines, Chicago to New Orleans; promoted by Talbot-Hanshue-Fokker group, controlling Western Air Express; making survey.

Md., Baltimore—Bd. of Awards let contract

to Harry T. Campbell Sons for grading part of Burns & Russell tract, to be added to Logan Field, 47 acres, at \$44,275. 5-16

Miss., McComb—City plans airport.

Mo., Kansas City—City let contract to Rolland Windrow for passenger terminal at airport, 84x43 ft., 2-story. 3-21

Mo., Kansas City—Butler Aircraft Corp., E. E. Norquist, Pres., manufacturer Butler "Black Hawk," immediately erect airplane plant on 15-acre tract at airport; main plant 80x112 ft., 2 other structures, each 48x80 ft., to house offices, etc.; plan begin operations within 60 days.

Mo., Kansas City—Porterfield Aviation Interests, Inc., capital \$25,000,000, formed as subsidiary of American Eagle Aircraft Corp., as holding company; will acquire Lincoln Aircraft Co., Lincoln, Neb., and it will be established as first division of Porterfield company.

N. C., Durham—James F. Williams, Herbert Stevenson and associates, announced plans for developing commercial airport, Raleigh Rd., east of city; field graded, 2 runways in condition; erect hangar and other equipment; Mack Clarkson, Lynchburg, Va., to be in charge of operations.

Okla., Alva—City plans airport.

Okla., Oklahoma City—City plans bond issue for airport.

Okla., Wewoka—City plans obtaining 125-acre field, 5 mi. northeast of town for immediate use by Braniff Airlines Co., Paul R. Braniff, 2004 W. 16th St., Oklahoma City, Okla.; and to establish permanent Wewoka airport, replacing present field.

Tenn., Chattanooga—City will call for bids in about 10 days for grading, draining, turfing, lighting and building construction on airport project, for which \$250,000 bonds have been voted; Benjamin King & Associates, Engrs., Hotel Patten Bldg., Chattanooga, and 1637 Mass. Ave., N. W., Washington, D. C. 4-25

Tenn., Knoxville—Chamber of Commerce interested in establishing airport.

Tex., Fort Worth—City, O. E. Carr, Mgr., votes June 25 on \$3,000,000 bonds, \$500,000 for airport; includes acquisition of land, constructing hangars, administration building and conc. aprons. 5-16

Tex., San Antonio—Capt. J. G. Anthony, Signal Office, Eighth Corps Area, West Quadrangle, Fort Sam Houston, receives bids June 10 for experimental model radio beacon station, Kelly Field; building, frame, 12x20 ft., with run-way in rear, 6x8 ft.; tower, frame, 12x12 ft., 80 ft. high.

Tex., Waco—City, E. E. McAdams, soon call for bids for repairing 3 hangars with new roofing, reinforcements and doors, at Rich Field; J. H. Strange, Engr.

Va., Norfolk—City plans establishing airport.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Mobile—State Highway Comm., Woolsey Finnell, Highway Dir., Montgomery, receives bids June 11 for bridge between Citronelle and Washington County line.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives

bids in June and July for 6 toll bridges at Cotter, Clarendon, Garland City, Galion, Felsenthal and Ozark; C. S. Christian, State Highway Engr.

Fla.—State Highway Dept., receives bids for 5 bridges. See Roads, Streets, Paving.

Fla., St. Lucie—St. Lucie County Engrs., Fort Pierce, preparing tentative plans for bridge across Indian River, at St. Lucie, \$35,000 available.

Ky., DeKalb—John S. Bell, DeKalb, requested permit U. S. Engineers' Office for bridge over Little Kanawha River at DeKalb; 8-ft. roadway.

Louisiana—Louisiana Highway Comm. receives bids for 4 bridges. See Roads, Streets, Paving.

Md., Baltimore—Bd. of Estimates, approved permit for toll bridge across Bear Creek, at Lovel Point, between Baltimore and Sparrows Point, to be built by McClinic-Marshall Corp., Pittsburgh, Pa.; Public Service Comm. to fix toll; Robinson & Steinman, Engrs., 117 Liberty St., New York City; Henry G. Perrine, Asso. Engr., Hearst Tower Bldg., Baltimore; lately noted plans approved by War Dept., Washington, D. C. 4-25

Md., Cumberland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids June 11 for 2 bridges in Allegany County: Double span rein. conc. girder bridge, each span 23 ft., 24-ft. clear roadway, 4-ft. sidewalk, over Jennings Run, east end of Mt. Savage; Cont. A-58; Double span rein. conc. girder bridge, each span 27 ft., 24-ft. clear roadway, 4-ft. sidewalk over Jennings Run, west of Barrellville, on road from Cumberland to Mt. Savage; L. H. Steuart, Sec.

Md., Easton—Talbot County Comms., granted permit to representatives of Tidewater Toll Properties, Inc., for 20-ft wide bridge across Choptank River, between Talbot County and Easton.

Md., Salisbury—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, making survey for elimination of Middle Neck grade crossing, N. Division St.; erect steel and conc. superstructure for highway traffic over crossing; incline to begin about 500 ft. on both sides of crossing; P. A. Morrison, Dist. Engr.; H. D. Williar, Jr., Ch. Engr.

Miss., Aberdeen—See Roads, Streets, Paving.

Miss., Aberdeen—State Highway Dept., Jackson, receives bids June 6 for 450-ft. conc. bridge across Tombigbee River; 150-ft. steel span, 290-ft. approaches, conc. piers; cost \$75,000; G. A. Draper, State Highway Engr. 5-9

Miss., Holly Springs—Marshall County Bd. of Supr., J. T. Wade, Clk., receives bids June 4 for 2 bridges: One 35-ft. post trestle bridge at Warsaw, Dist. No. 3; 1,276 ft. pile and trestle bridge south of Waterford, across Oakchewalla Creek, Dist. No. 4.

Miss., Tylertown—Walthall County Bd. of Supr., J. C. Luther, Chancery Clk., receives bids June 3 for bridge on Rushing road, near L. W. Johnson's place, Second Dist.

Miss., Vicksburg—Warren and Hinds Counties Boards of Supr., considering steel highway bridge across Big Black River between

Jackson and Vicksburg; 170-ft. span, with 167-ft. clear opening at river channel.

Miss., West Point—Clay County Bd. of Supervs., Julia H. Johnson, Clk., receives bids June 5 to furnish steel and build 70-ft. truss steel bridge, 18-ft. roadway, 15-ton carrying capacity.

Miss., Winona—Highway Commrs. Road Dist. No. 4, Montgomery County, receive bids June 4 for bridge near Kilmichael.

Mo., Independence—Jackson County Court requested permit State Public Service Comm. to construct 200-ft. conc. viaduct over Missouri Pacific and Rock Island tracks over Outer Belt road at Greenwood, 4 mi. south of Lees Summit.

Mo., Randolph—War Dept. Washington, D. C., approved plans Kansas City Southern Ry. Co., A. N. Reece, Ch. Engr., Kansas City, for bridge across Missouri River near Randolph.

S. C., Spartanburg—Spartanburg County Highway Comm., receives bids June 11 for steel superstructures for 2 bridges: Valley Falls Bridge over Lawson Fork—140 x 18-ft. steel span, one sidewalk; Glandale Bridge over Lawson Fork—two 120 x 18-ft. steel span, each, and one 50 x 18-ft. span with one side walk; H. B. Humbert, County Engr.

Tex., Amarillo—Potter County Commrs. Court, Sam B. Motlow, County Judge, receive bids June 10 for 60-ft. steel bridge with 20-ft. steel 1-beam approach, over Amarillo Creek, near Cliffside; H. G. Hamrick, County Auditor; J. W. Ryder, County Engr.

Tex., Dallas—Dallas County Commrs. Court, Charles E. Gross, County Auditor, receive bids soon for 2 bridges over Trinity River; June 20 for Corinth St. Bridge—2,500 ft. long, 40-ft. wide, steel or rein. conc., from east levee to bluff at Eighth St., on Oak Cliff side; Commerce St.—2,900 ft. long, 60-ft. wide, rein. conc.; cost about \$1,000,000; A. P. Rollins and R. H. Clinger, Directing Engrs.

Tex., Houston—City, plans 4 bridges. See Roads, Streets, Paving.

Tex., Houston—City, Walter E. Monteith, Mayor, considering expending \$1,250,000 for 4 bridges on Hughes, Lowell, Yale and McKee St.; \$300,000 for drainage sewers; \$123,345 sanitary sewers; H. L. Shaw, City Engr.

Virginia—State Highway Comm. receives bids for 2 bridges. See Roads, Streets, Paving.

Contracts Awarded

Fla., Gainesville—See Roads, Streets, Paving.

Ga., Atlanta—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 900 tons steel for Mitchell St. viaduct; MacDougald Construction Co., 545 Argier Springs Rd., Atlanta, has contract for viaduct.

Ga., Doctortown—State Highway Bd. of Georgia, Searey B. Slack, Engr., East Point, contract to Nichols Construction Co., Atlanta, to complete approach fills for bridge across Altamaha River, Doctortown; Roanoke Bridge & Iron Co., Roanoke, Va., for steel superstructure for bridge.

Ky., Burlington—Boone County, N. E. Reddell, County Judge, let contract to George Nicholson & Son, Walton, for 70-ft., 12-ft. wide conc. bridge and approach across Big Bone Creek.

Ky., Paducah—Paducah-OH River Bridge Co., Richard Rudy, Pres., 230 Broadway, let contract to George W. Katterjohn & Son Co., 1919 Jefferson St., for rein. conc. revetment work on sand fill of Kentucky approach to Paducah-Brookport, Ohio River Bridge; conc. slabs, reinforced with welded wire mesh, on sides of fill, from one foot below natural grade to top shoulder; 15,000 sq. yd. paving, 240 tons rein.

Oklahoma—State Highway Comm. let contracts for 3 bridges. See Roads, Streets, Paving.

Tex., Dallas—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 325 tons steel for Lamar St. Viaduct; L. H. Lacy & Co., Dallas, has contract for viaduct.

Tex., Houston—Harris County Commrs. Court, Norman Atkinson, County Judge, let contract to Interstate Construction Co., Paris, for conc. trestle bridge on Link road, Precinct No. 3.

Canning and Packing Plants

Ark., Berryville—Berryville Canning Co. plans erecting cannery; 1 story; 50x98 ft.; metal roof.

Fla., Miami—Bonita Groves Products Co., Dr. J. Petersen, Pres., organized with capital of \$500,000, erect plant for canning papaya products, preserves, etc.

Tex., Gainesville—Cooke County Truck and Fruit Growers Assn., L. M. Osborn, Mgr., considering establishment of canning plant.

Clayworking Plants

Fla., Miami—Greater Miami Brick Co., 30th St., N. W., and Miami Canal, B. L. Dunan, Sec., moving plant from Bradenton, erect buildings, 52x556 ft. and 64x50 ft.; brick construction, corrugated iron roof; daily output 30,000 bricks; construction by owners.

Va., Richmond—Rust Engineering Co., 30 Church St., New York, Woodward Bldg., Birmingham, and 606 Grant St., Pittsburgh, reported, acquired tract of shale deposit land on south bank of Occoquan River at Woodbridge Station; erect plant with initial capacity 20,000,000 face brick annually.

Concrete and Cement Plants

Tenn., Knoxville—Ready Mixed Concrete Co., John L. Humbord, Pres., Quincy Ave., let contract to Wilson-Weesner-Wilkinson Co., 108 Fatherland St., Nashville, for concrete, plaster and cast stone plant, daily output, 500 cu. yd.; install crane, mixer, cement bins, elevators, trucks; Blaw-Knox Co., Pittsburgh, Pa., and White Motor Co., Cleveland, Ohio.

Tenn., Memphis—S. & W. Construction Co., Gen. Contr., advises regarding plant for Marquette Cement Mfg. Co., Marquette Bldg., Chicago, Ill., there will be 2 rein. conc. tanks, 25 ft. in diam., 50 ft. high, with superstructure and substructure to house necessary machinery; Tri-State Iron Co. has contract for struc. steel; John A. Denie's Sons Co., sand and gravel; Marquette Cement Mfg. Co., rein. conc. work; no work will be started until pile foundations are in place by Marquette Cement Mfg. Co.

Tex., El Paso—Southwestern Portland Cement Co., H. E. Nichols, Plant Supt., erect laboratory; install apparatus for handling materials and breaking concrete specimens.

ered centrifugal pump, capacity 700 gal. per min.; Will Author, Engr., San Benito.

Tex., Port Lavaca—U. S. Engr. Office, Galveston, reported, soon call for bids or start government dredges dredging channel of Intracoastal Canal, Port Lavaca to Matagorda Bay, 30 mi.

Virginia—U. S. Engr. Office, Foot of Front St., Norfolk, Va., has low bid from Arundel Corp., Pier 2, Pratt St., Baltimore, Md., for maintenance dredging in Lower North Landing River-Currituck Sound, Va., and N. C. section of Inland Waterway from Norfolk, Va., to Beaufort Inlet, N. C., place measurement with allowable overdepth of 3 ft., 645,000 cu. yd. plus 930,000 cu. yd. overdepth—1,575,000 cu. yd. at \$0.063.

Va., Norfolk—U. S. Engr. Office, reported, let contract to Central Dredging Co., 307 N. Michigan Ave., Chicago, Ill., for dredging approx. 7,000,000 cu. yd. sand and silt from Norfolk Harbor at \$1,201,050.

Va., Richmond—Bd. of Engrs. of Rivers & Harbors approved survey of James River; to be started immediately by U. S. Engr., Norfolk; project calls for 3 canals, Dutch Gap, Meadowville and Turkey Island; straighten river and shorten distance, Richmond to Hopewell by 11 mi.; deepen to 25 ft. Hampton Roads to deep-water terminal 3.8 mi. below Richmond falls; 200 ft. wide, Richmond to Falling Creek, 300 ft. here to Hopewell and 400 ft. Hopewell to sea; Richmond Port Comm., James F. Ryland, Chrmn., plans for city to add \$3,000,000 to Government's appropriation for harbor development, including \$1,000,000 for wharves and equipment, \$800,000 for belt line track, etc., \$350,000, intermediate terminal, and \$400,000, opening and widening highway approaches.

Electric Light and Power.

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

D. C., Washington—Dist. Commrs., reported, received low bid at \$13,863 from Virginia Machinery & Well Co., Inc., 1319 E. Main St., Richmond, Va., for power plant repairs.

D. C., Washington—Potomac Electric Power Co., 14th and G Sts., N. W., let contract to Charles T. Tompkins Co., 168 K St., N. W., for substation; 3 story, brick, cost \$140,000.

Ga., Atlanta—City install white way on Spring St., and Peters St.

Ga., Atlanta—Empire Construction Co., Electric and Gas Bldg., contractor for Georgia Power Co.'s steam plant on Chattahoochee River, let contract to W. O. Shephard, Citizens and Southern Bank Bldg., for excavation and grading; work on general contract expected to start June 25; will receive bids on unit basis for other work; cost of entire plant and equipment \$6,000,000.

Ga., Atlanta—Georgia Power Co., Electric and Gas Bldg., erect sub station nr. Hall St.; 2 story and basement; rein. conc. and brick construction; compo. roofing; conc. floors; steel sash and doors; cost \$35,000; Empire Construction Co., Contr., Electric and Gas Bldg.

Ga., Augusta—City, W. B. Bell, Mayor, plans electrification of Augusta canal by construction of power and lighting plant, to be financed by bond issue; Charles D. Carr and A. H. Merry, Canal Coms.

Ga., Warm Springs—Georgia Power Co., Atlanta, construct 6,000 volt, 3 phase line, 4 miles long from Manchester to here; poles probably furnished by Southern Wood Preserving Co., Atlanta, practically all other material and equipment furnished by company; construction by Empire Construction Co., Atlanta.

Miss., Greenwood—City plans rebuilding burned portion of light and power plant.

Miss., Monticello—Mississippi Power and Light Co., Jackson, reported, extend line to here.

Mo., Ashland—Missouri Power and Light Co., Jefferson City, granted 20 yr. franchise.

Mo., Hartsburg—Missouri Power and Light Co., Jefferson City, granted 20 yr. franchise.

Okl., Blackwell—City receives bids June 4 for boiler for power plant; cost \$18,000.

S. C., Manning—Carolina Power & Light Co., Raleigh, N. C., improve power lines.

Tenn., Lexington—City, W. R. Holland, Mayor, let contract to Fairbanks, Morse & Co., Chicago, Ill., for 250 h.p. oil engine, generator and other equipment; cost \$20,000.

Tenn., Rutledge—Grainger County Progressive Club closed deal with Bettis Electric Co., Morristown, for power and lights.

Tex., Cross Plains—West Texas Utilities Co., Abilene, constructing 31 mile line from here through Burkett to Santa Anna; also build substation at Cross Plains and equip Santa Anna substation; line will connect with Ballinger, Talpa, Valera and Santa Anna transmission line.

Va., Shenandoah—Massanutton Power Co., Shenandoah, owned by Page Power Co., P. O. Drawer 378, Luray, repair hydro-electric dam at Shenandoah, enlarge power house to double present size; install 2 generators, etc. expend \$90,000; work under direction of W. C. Whitner & Co., Inc., Engrs., Electric Bldg., Richmond.

Va., Purcellville—American Water Works and Electric Co., Inc., 50 Broad St., New York, reported, acquired controlling interest in Loudoun Light and Power Co.; will be operated under former name.

Flour, Feed and Meal Mills

Tex., Fort Worth—Following firms furnishing materials for plant of Universal Mills, C. M. Davis, Cotton Exchange Bldg., Contrs., for mill buildings and warehouse; Southwestern Engineering Co., Springfield, Mo., for elevator; Lone Star Portland Cement Co., Dallas, furnishing cement; Sloan Lumber Co., 210 W. Rio Grand St., Ft. Worth, lumber; Texas Steel Co., S. Hemphill St., Ft. Worth, steel rein. bars; Fort Worth San & Gravel Co., 103½ E. Seventh St., Ft. Worth, concrete aggregates; Allis-Chalmers Mfg. Co., Milwaukee, Wis., electric motors; J. B. Ehsam & Sons Mfg. Co., Enterprise, Kans., transmission machinery, and sheet metal work; S. Howes Co., Silver Creek, N. Y., grain cleaning machinery; Link-Belt Co., Indianapolis, Ind., roller and silent chain drives; Diamond Rubber Co., Inc., 2422 Broadway, Kansas City, Mo., rubber belting; Humphrey Elevator Co., Faribault, Minn., employees elevator. 5-16

Foundry and Machine Plants

Md., Hagerstown—Pangborn Corp., T. W. Pangborn, Pres., Crestline Ave., manufacturer of sand blast and dust equipment, erect \$125,000 addition to plant; 1-story, brick; take bids on separate contracts about June 15; private plans.

Mo., St. Louis—Skinner Bros. Mfg. Co., 1437 S. Vandeventer Ave., let contract to Chas. B. McCormack & Son, Columbia Bldg., for addition to exhaust and blower pipe plant; 1-story, 13x70 ft., comp. roof, struc. steel; Aegeater & Bailey, Archt., Ry. Exch. Bldg.

Tex., Houston—H. L. & H. Co. establish plant to manufacture pumps, air valves, casting heads, etc.; install tool equipment. See Want Section—Machinery and Supplies. 5-23

Gas and Oil Enterprises

Ala., Bessemer—Woodward Iron Co., Woodward, granted 30 yr. franchise for running pipe lines into city for furnishing by-product gas to industries, including Harbinson-Walker Refractories Co., and Pullman Car and Mfg. Co.

Ala., Montgomery—Alabama Utilities Gas Co., branch of Southern Cities Public Service Co., 105 W. Adams St., Chicago, Ill. and Peachtree and Harris Sts., Atlanta, Ga., plans extension of gas service; having surveys made.

Ark., Arkadelphia—Transcontinental Oil Co., Ritz Bldg., Tulsa, let contract to Blackmer Rotary Pump Co., Grand Rapid, Mich., for pumps; contract let to C. D. Gregory, for wholesale oil station. 5-23

Ark., Dermott—Arkansas Power and Light Co., Little Rock, & Pine Bluff, granted 25 yr. franchise.

Ark., Harrison—Independent Oil and Gas Co., Philtower Bldg., Tulsa, Okla., acquired Lewis Oil Co.

Ark., Lamar—City, G. M. Odom, Mayor, granted gas franchise to Public Utilities Corp. of Arkansas subsidiary of Arkansas Natural Gas Corp., Ardis Bldg., Shreveport, La.

Ark., Paris—Public Utilities Corp., El Dorado, applied for gas franchise.

Ky., Elizabethtown—White Star Oil Co., capital \$15,000, incorporated; Wm. M. Brown, R. A. Miller.

Ky., Hopkinsville—W. A. Batten, Nashville, Tenn., and Kansas City, Kan., laying pipe line, supply city with natural gas from Christian County; cost \$80,000.

Ky., Owensboro—Owensboro Gas Co., Inc., S. D. Whiteman, Mgr., ready to begin work on 5 miles additional distributing mains; installing Chaplin-Fulton district regulators and Sprague domestic meters; work by own organization. 5-2

La., Shreveport—Arkansas Natural Gas Corp., Ardis Bldg., reported acquired from Moran Corp. of the South, franchises, distribution and pipe line systems in Caddo, Bossier, Webster, Red River, DeSoto, Claiborne and Union Parishes, La., and Union County, Ark.; towns served include, Plain Dealing, Junction City, Marlon, Belcher, Hosston, Oil City, Naborton, etc. 5-23

Miss., Hattiesburg—Mississippi Service Co., 200 Front St., subsidiary of Central Public Service Co., 105 W. Adams St., Chicago, Ill., plans expending \$15,000 for improvements to gas system; has franchise. 5-12

N. C., Rockingham—Atlantic Gas Co., Bullitt Bldg., Philadelphia, Pa., reported, establish gas plant between Rockingham and Hamlet; serve towns and adjacent villages of Wadesboro, Cheraw, Pinehurst, Southern Pines, etc.

Okla., Blackwell—Van-Ray Pipe Line Co., incorporated; R. J. Early, A. S. Wright.

Okla., Butler—Barrett Gasoline Co., Tulsa, erecting a high pressure absorption plant; Dean Foster, in charge; Southwestern Engineering Co., 605 Mayo Bldg., Tulsa, will supply distillation equipment; gasoline production estimated at 25,000 gal daily.

Okla., Heavener—City votes June 17 on gas franchise; G. D. Hughes, Acting Mgr.

Okla., Moffett—Oklahoma Gas & Electric Co., Oklahoma City, granted gas franchise, construct distribution system to be interconnected with high line near Muldrow.

Okla., Oklahoma City—Triangle Royalty Corp., capital \$250,000, incorporated; Charles E. Carter, First Natl. Bk. Bldg.

Okla., Oklahoma City—Stockholders of Oklahoma Gas and Electric Co., voted to increase capital to \$80,000,000 to permit of a five yr. expansion program of the company throughout the state. 5-2

Okla., Oklahoma City—Coline Oil Co., Sante Fe Railroad interests, purchased from Southwestern Engineering Corp., Mfrs. and Consit. Engrs., Mayo Bldg., Tulsa, Okla., a Type 85 distillation unit, together with absorbers for treatment of 12,000,000 cu. ft. daily, also Fluor water cooling tower.

Okla., Seminole—Gypsy Oil Co., subsidiary of Gulf Oil Co., Pittsburgh, Pa., construct Little River gasoline absorption plant in Seminole district; Southwestern Engineering Corp., Mfrs. and Consit. Engrs., Mayo Bldg., Tulsa, furnishing Type 200 distillation plant and a Fluor water cooling tower; will treat 20,000,000 cu. ft. daily.

Okla., Ponca City—Bocher Oil Co., capital \$150,000, incorporated; W. H. Bocher, D. E. Early.

S. C., Charleston—See Miscellaneous Construction.

S. C., Conway—Costal Oil Co., incorporated; W. H. Tallecast.

Tenn., Harriman—Standard Oil Co., rebuild plant on Carter St., recently destroyed by flood.

Tex., Clayton—Clayton Gas Co. extend gas lines.

Tex., Dallas—Stockholders of Lone Star Gas Corp. vote June 24 on increase of authorized stock to 7,000,000 shares of no par from 2,000,000 shares of \$25 par and to exchange 2½ shares of new no-par stock for each share of present stock.

Tex., Del Rio—Golden West Oil Co., plans refinery at Hondo or Devine; also pipe line from Ina field to plant.

Tex., El Paso—Rio Grande Oil Co., 417 S. Hill St., Los Angeles, Calif., let contract to Max B. Miller & Co., 501 Fifth Ave., New York, for \$1,000,000 refinery; W. C. Pope, Gen. Mgr., 525 E. Seventh St., El Paso. 5-23

Texas—Magnolia Gas Co., Dallas, Tex., reported, construct 230 mile pipe line from field to San Antonio and New Braunfels; Fratt will be north junction of line which will be electrically welded entire length; portable electric generators used to supply current; from Fratt south will construct 18-in. line to point where company has purchased 50 acre compressor site; from this compressor station an 18-in. line will run to Concepcion Rd. power station of San Antonio Public Service Co.

Tex., Corpus Christi—Gulf Coast Pipe Line Co., Wm. F. Morgan, Pres., Refugio, reported, let contract to F. H. Carson, 222 W. Dewey St., San Antonio, for 6-in. screw oil pipe line from tank farm south of Refugio field to Corpus Christi; 30 miles of line laid on land, 4 miles across Nueces Bay; storage tank and loading facilities will be erected. 5-9

Tex., Corpus Christi—George Eggleston, Milom Bldg., San Antonio, reported, representing Fort Worth and Chicago capitalist for erection of oil refinery near deep water turning basin.

Tex., Pampa—Southwestern Engineering Corp., Mfrs. and Consit. Engrs., 605 Mayo Bldg., Tulsa, Okla., furnishing distillation units, two Type 200, and 3 boilers, three Type S. A. 112 H.P. water tube Collins for Skelly Oil Co.'s plant. 5-23

Tex., Fort Worth—Mardona Oil Co., incorporated; E. B. Kimball, 1507 Texas St.

Tex., McCamey—S. C. Johnson, Fort Stockton, negotiating for gas franchise.

Tex., Pampa—McConnell Oil Co., capital \$100,000, incorporated; L. C. McConnell, J. M. Dodson.

Tex., Pyote—Atlantic Pipe Line Co., 260 S. Broad St., Philadelphia, Pa., reported, acquired pipe line of Independent Oil & Gas Co., extending from Winkler County field to Pyote; will extend lines.

Tex., San Antonio—Pitts Petroleum Co., incorporated; Curtis Pitts, 111 Parland St.

Tex., San Antonio—Coast Drilling Co., incorporated; Wm. F. Morgan, 202 Mary Louise St.

Tex., San Antonio—South Texas Pipe Line Co., subsidiary of United Gas Co., Houston, let contract to Smith Brothers, Inc., Santa Fe Bldg., Dallas, for 16-in. line from near San Antonio to where it will tie into pipe line supplying San Antonio and vicinity; pipe ordered from Youngstown Sheet & Tube Co., Youngstown, O.; line extends south to producing areas in Bee and Refugio counties; cost est. at \$2,750,000.

Ice and Cold-Storage Plants

Ga., Atlanta—United Cold Storage Co., Inc., M. D. Poronto, Pres., 2101 W. Pershing Rd., Chicago, Ill., reported, planning erecting \$3,000,000 office and storage building, on present site of Union station: 11 stories, with tower 17 stories; middle portion, 6 stories, to be used for dry storage plant; first section for offices, with cold storage section same as dry storage plant; stores occupy viaduct level on Pryor St., Wall St., and possibly Central Ave. 12-6-28

Ga., Savannah—Georgia Ice Corp. let following sub-contracts for ice plant: Plumbing, Barfield Plumbing Co.; roofing, E. C. Pacetti's Sons, both 145 Whitaker St.; Geo. C. Ramson, Gen. Contr., 10 Brady St.; Louis Roselle, Engr. 5-23

Mo., Jefferson City—Moerschel Products Co. let contract to Stepperman Electric Co., Percy Stepperman, W. High St., for installing electrical apparatus and wiring in ice plant.

Tex., Corpus Christi—H. C. Wagner and L. B. Mead, 1515 Water St., erect \$25,000 cold storage and ice plant, Caldwell and Last Sts.; 75,000 cu ft cold storage space, hollow tile; machinery ordered; to be completed by June 27; operate as Port Ice & Storage Co.

Tex., Harlingen—Central Power & Light Co., Frost Bldg., San Antonio, let contract to R. E. Ewing, for ice sales station; hollow tile, stucco; to be completed in 30 days.

Tex., Van Alstyne—Southern Ice & Utility Co., J. B. Bailey, Local Mgr., erect modern drive-in ice storage room; 26x36 ft., brick veneer.

Tex., Waxahachie—W. W. Rogers and associates acquired Waxahacie Ice Works, W. D. Anderson, Mgr.

Va., Broadway—Mutual Cold Storage, Inc., let contract to Harrisonburg Building & Supply Co., Harrisonburg, for \$100,000 apple cold storage building, between here and Timberville; 80x100 ft., rein. conc., superstructure, complete with all refrigerating machinery; to be completed Sept. 15. (See Harrisonburg 5-16)

Iron and Steel Plants

Ala., Gadsden—Gulf States Steel Co., W. H. Coverdale, Pres., Birmingham, and 32 Wall St., New York, let contract to Mackintosh-Hemphill Co., Foot 12th St., Pittsburgh, Pa., for \$1,500,000 plate mill; 80x1000 ft., steel; produce 25,000 tons finished plates monthly; to be equipped with 1 three-high stand of rolls, 2 furnaces, hotbed and necessary

shears; roll plates up to 72 in. wide, $\frac{1}{8}$ in. thick, all to standard lengths, electrically driven, roller bearings; construction as soon as final plans completed; let contract about June 15 for sheet mill, cost approx. \$1,500,000; 88x600 ft., annealing and galvanizing mill, 80x77 ft., warehouse, 80x1,000 ft.; plate and shee mills call for additional buildings and total floor space of 24,000 sq. ft. 5-9

Mo., St. Louis—Mississippi Valley Iron Co., E. C. Goltra, Pres., 6500 S. Broadway, announced soon begin manufacturing ferromanganese, steel ingredient.

Land Development

Ala., Huntsville—Huntsville Realty Co. increased capital to \$200,000.

Ark., Texarkana—City Park Comsn., John W. Wheeler, Chrmn., develop Spring Lake for park; has plans by Homer L. Fry, Landscape Archt.; construct gateway; surface roadways; improve shore gardens; 8 hole golf course; soon call for bids for repairing pavilion; cost about \$50,000.

Fla., Bartow—Bartow-Polk Holding Co., incorporated; W. P. Allen, C. L. Wilson.

Fla., Bartow—Bartow-Wilson Holding Co., incorporated; E. A. Bosarge.

Fla., Clewiston—John R. Mowry, Engr., St. Louis, representing C. J. Gonterman, develop Seminole Farms, 150 acres on Sugarland Highway; expend \$100,000; install irrigation system; erect garage; workmen's homes.

Fla., Miami—Wiseaga Co., incorporated; M. B. Wiseheart, 31 N. E. First Ave.

Fla., Micanopy—The Wauburg Co., incorporated; C. B. Watkins, E. G. Baxter.

Fla., West Palm Beach—Albert Hall, Land Title Bldg., Philadelphia, Pa., expend \$200,000 for improvements to tract of land recently acquired; construct ornamental fountains, pier, Venetian yacht; erect 16 two story dwellings; Volk and Maass, Palm Beach, Archts., have designed and will supervise development.

Fla., Winter Haven—A. C. Logan, 702 S. Edison Ave., Tampa, acquired Pen-Hutch grove, 98 acres, on west side of Lake Eloise.

Ga., Atco—Robert & Co., Inc., Archts. and Engrs., Atlanta, making topographic survey of entire property recently purchased from American Textile Co. by Goodyear Tire and Rubber Co., Akron, O.; 80 cottages with water, sewers and lights will be added later. 5-23

Ga., Columbus—See Sewers.

Ga., LaGrange—Callaway Interests retained E. S. Draper, Landscape Archt. and Engr. Charlotte, N. C., to prepare report and detail plans for town planning improvements over Southwest LaGrange areas for 20 yrs. improvement program; also for Fuller E. Callaway Memorial Park.

Md., Baltimore—Frank B. and Robt. A. Bready Co., 1936 Grinnalds Ave., develop 48 acres on Washington Blvd.; develop subdivision; installing sewer under city specifications.

Maryland—Frank B. Robinson, Charles Town, W. Va., acquired 1000 acre orchard along Potomac River.

Mo., Kansas City—Morrison Gregg Mitchell Realty Co., incorporated; S. Boon Gregg, 834 W. 61st St., Terrace.

Mo., St. Louis—Mervin Realty Co., incorporated; Samuel Kramer, 941 Ohio St.

Mo., St. Louis—Big Four Realty Co., 2400 S. Jefferson, capital \$50,000, incorporated; John M. Ferguson, John H. Miles.

Mo., St. Louis—Atlas Building & Realty Co., incorporated; Barney Rosenthal, 6239 Rosebank Pl.

N. C., Asheville—Commercial Realty Corp., capital \$40,000, incorporated; Guy Weaver, Jackson Blvd.

N. C., Asheville—Piedmont Estates Co. incorporated; Wm. P. Farr, Knollacre Cottage, Victoria Rd.

N. C., Ayden—Pitt Development Co., capital \$50,000, incorporated; E. G. Flanagan, M. K. Blount.

N. C., Raleigh—Raleigh Golf Assn., Dr. Carl C. Taylor, Furches St., develop golf course on 110 acres on Fayetteville Rd.; construct clubhouse with showers.

Okl., Chickasha—Chickasha Cemetery Co., capital \$50,000, incorporated; W. P. Brown, W. N. Elliott.

Tenn., Jasper—See Miscellaneous Construction.

Tex., Beaumont—City plans calling election on July 8 for bonds for Tyrrell Park and fair ground improvements. 5-16

Tex., Houston—A. H. Eicke develop tourist camp on Main St. extension and Main St. Rd.; build community stores and filling station.

Tex., Houston—Greenville Realty Co., capital \$35,000, incorporated; Leo M. Furman, 5116 Caroline St., Greenfield.

Tex., Kent—W. A. Hicks, Uvalde, acquired and will develop 66,272 acres in Culberson County.

Tex., Olmito—A. F. Parker Securities Co., reported, let contract to Agar & Gentry, San Benito, for installation of irrigation system on 50 acre tract; will use 14,000 ft. of pipe to carry water from Lake Tepeguaje; install electrically driven centrifugal pump, capacity 700 gal. per minute; pump house of Mediterranean type construction.

Tex., San Antonio—A. Salandino, 1415 Main St., and G. J. Lucchese, Moore Bldg., develop subdivision.

Tex., San Antonio—E. Escobar develop 6 acres for subdivision.

Va., Alexandria—Aurora Hills Development Co., Inc., chartered; E. A. Morse, Bethesda, Md.

Va., Hopewell—City plans voting June 18 on park and playground bonds. See Financial News Columns. 5-16

Va., Norfolk—Beshone Corp., incorporated; W. J. Hunt, 728 Raleigh Ave.

Va., Winchester—South Branch Orchards, Inc., capital \$20,000, incorporated; C. E. Ombs, Kernstown.

Lumber Enterprises

Ala., Bellamy—Bellamy Supply Co. let contract to Moore Dry Kiln Co., 843 Blanche St., Jacksonville, Fla., and North Portland, Ore., for 6 Moore exhaust-fan kilns, with automatic temperature, and humidity recorder-controllers.

Ala., Elrod—Pioneer Lumber Co. purchased new equipment and rebuilding all-electric planing mill to replace burned plant.

Ga., Brownwood—Lloyd Miller erect 20,000 ft. capacity sawmill; later erect planing mill and dry kiln.

Fla., Winter Garden—John G. Sheeler Lumber Corp., incorporated; J. G. Sheeler, Sr.

N. C., Chapel Hill—Farrington Lumber Co., capital \$50,000, incorporated; James L. Donald, John B. Boyd, Mooresville.

South Carolina—Schofield Bros., Finance Bldg., Philadelphia, Pa., acquired timber rights on 10,000 acres, Allendale County.

Tex., Porterville—Loving Lumber Co., capital \$50,000, incorporated; H. L. Lockhart, W. L. Phillips.

Va., Portsmouth—Mitchell Lumber Corp., capital \$25,000, incorporated; J. E. Mitchell.

Mining

N. C., Spruce Pine—William Richardson, Erwin, Tenn., acquired mica department of Carolina Mineral Co.; Consolidated Mica Co., a stock company, being formed, under management of John V. Cox.

Tenn., Jefferson City—Universal Exploration Co., subsidiary of U. S. Steel Corp., 71 Broadway, New York, acquired 100-acre Bible property near here; extend zinc mining to tract.

Tex., Lampasas—F. H. Harris leased 50 acres mineral lands, on Beaver Creek, Burnet County, 20 mi. from here; install machinery and begin operations immediately to extract gold, silver and lead in considerable quantities.

Miscellaneous Construction

Ala., Birmingham—Mississippi-Warrior Service, Brown-Marx, Bldg., let contract in few days for \$150,000, concrete warehouse; double warehouse facilities and improve tele-fax system so that barges can be loaded and unloaded directly to railroad cars without having to handle merchandise twice; R. A. Brown, Birmingham member of Advisory Bd., Inland Waterways Corp.

Arkansas—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., receives bids June 17 for constructing shop and warehouse buildings at supply and repair depot, west bank Mississippi River opposite Memphis, Tenn. 5-16

Fla., Miami—City Council receives bids until June 5 for seawall, etc., at street ends 39th and 40th St.

Fla., Palm Beach—City Council voted to use steel bulkhead instead of wood piling in Ocean Boulevard reconstruction work; ordered creosote anchor timber from Lainhart & Potter, 435 Gardenia St.; Channel Iron, 5-16

Morris Wheeler & Co., 30th and Locust Sts., Philadelphia; pipe and fittings, Palm Beach Mercantile Co., Clematis Ave.; O. E. Young, Engr., Town Hall. 5-23

Ga., Cartersville—Wiedeman & Singleton, Engr., Candler Bldg., Atlanta, let contract to C. C. Case, 249 Peachtree St., Atlanta, for 35-ft. conc. dam, 35 ft. high; \$37,850. 2-24

Ga., Columbus—City voted \$1,233,000 bonds, \$65,000 for incinerator. See Financial News Columns.

Ky., Williamsburg—Kentucky Game & Fish Comn., Frankfort, has low bid from J. M. Perkins Construction Co., Frankfort, for fish hatchery near here at \$24,326; contract to be awarded them and construction to begin by June 1.

La., New Orleans—U. S. Engr. Office, Ft. of Prytania St., instructed by War Department to accept bid of McWilliams Dredging Co., Canal Bk. Bldg., for following work in Section 3 Bonnet Carré Spillway: Hydraulic base, 2,300,000 cu. yd., at 27 cents per cu. yd.; superimposed fill, 250,000 cu. yd., at 40 cents per cu. yd.; cut-off ditches, 380,000 cu. yd., at 27 cents per cu. yd.; Sec. 4—Jancke Service, Inc., 814 Howard Ave., for 3,000,000 cu. yd. hydraulic base, at 23.7 cents per cu. yd.; superimposed fill, 310,000 cu. yd., at 39 cents per cu. yd.; cut-off ditches, 470,000 cu. yd., at 23 cents per cu. yd.; levee construction in swamp sections to be done by government plan. 5-23

La., New Orleans—Treasury Dept., Office of Supervising Engr., Washington, D. C., has low bid from Harry A. Villers, 5236 State St., for constructing wharf and approaches at U. S. Quarantine Station, at \$23,900. 5-9

Md., Baltimore—Greenmount Cemetery Co., Fidelity Bldg., let contract to Lacchi Construction Co., 17 Guilford Ave., for \$75,000 mausoleum, Greenmount Cemetery: 3-story, fireproof; Buckler & Fenhamen, Archts., 325 N. Charles St. 8-30-28

Miss., Biloxi—Bd. of Supervisors of Harrison County advertising for plans and specifications for final stretch of 28-mi. seawall; last unit to extend, Heartsease Park to Holmhaven, 7000 ft., to cost \$125,000.

Missouri—James W. Good, Sec. of War, Washington, D. C., ordered indefinite postponement of letting contracts for constructing Birds Point-New Madrid levee. 5-2

Mo., Springfield—City plans \$750,000 bond issue for flood control, etc. See Financial News Columns.

Okla., Oklahoma City—Rancho Club, Perine Bldg., construct \$25,000 earthen dam and impounding reservoir for Rancho Beach and country club; C. S. Thompson, Engr., Medical Arts Bldg.

S. C., Charleston—Gulf Refining Co., immediately begin preparations for constructing conc. \$250,000 water terminal, replacing 1000-ft. timber dock, Shipyard Creek: afford working space for 2 vessels, 500 ft. long; install high speed bunkering machinery to refuel ships and automatic barrel-handling machinery; substructure, steel and conc.; dock, 40 ft. wide, conc.; construction by company's engineers and with own equipment; B. E. Lamb, Supt. of Constr.

Tenn., Jasper—Sequatchie Valley Game Protective Association plans developing 15,000 acres north of here, Dixie Hwy.: establish \$100,000 fish hatchery and game reservation; state engineers made surveys.

Tex., Galveston—Galveston Wharf Co., F. W. Parker, Gen. Mgr., 2324 B St., approved preliminary plans for \$2,500,000 grain elevator; final plans in progress; storage capacity, including present conc. tanks, 5,864,000 bu.; receiving capacity, four 25,000 bu. legs, 16 sinks, 320 cars daily, six 42-in. distributing belts; shipping, six 25,000 bu. legs fed by six 42-in. belts, four 42-in. shipping belts, so arranged that 4 distributing belts can be used for shipping; delivering capacity 200,000 bu. per hour, shipping conveyors 1056 ft. long; install eleven 25,000 bu. scales with 3000-bu. and 1750-bu. garners; drying, three 1000-bu. units, direct heat type, reached by any scale in house, have 12,000-bu. leg for return movement; install dust collecting system, cleaning and clipping machinery, with room for future installation; Horner & Wyatt, Engrs., Bd. of Trade Bldg., Kansas City, Mo. 5-23

Va., Norfolk—Rip Rap—U. S. Engr. Office, let contract to A. G. Pinkston, for rip rap stone for repairing Craney Island Bulkhead, at \$36,372. 5-2

Miscellaneous Enterprises

Ala., Anniston—White & Co., let contract to Brazell & Miller, Norris Bldg., Atlanta, Ga., for addition to packing plant; conc.,

brick, comp. roof, steel sash and doors, conc. and wood floors; private plans.

Ala., Birmingham—Benson Paint & Varnish Co., 3501 Tenth Ave., N., capital \$200,000, reorganized with R. C. Munger, Pres.; C. W. Zander, V.-Pres.; contract let for varnish plant.

Ala., Gadsden—Coca Cola Bottling Co., Joseph Eros, Anniston, let contract to Chas. F. Duke Co., Anniston, at \$46,190 for bottling plant; built-up roof, by American Tar Products Co.; tile roofing, by B. Mifflin Hood Co., Atlanta, Ga. 5-9

Ala., Montgomery—Seeger & Harrison, Inc., F. L. Seeger, V.-Pres., erect \$30,000 packing plant, Lower Wetumpka Rd.; employ 25; begin operation in mid-summer.

Ala., Uniontown—Foremost Dairy Products, Inc., Jacksonville, Fla., reported, contemplating creamery and supply station.

Ark., Arkadelphia—C. C. Hawkins erecting \$50,000 sand and gravel plant; capacity, 100 cu. yd. per hr.; completion in 6 weeks.

Ark., Bentonville—Bentonville Dairy Products Co., incorporated; H. E. Woods, Stephen L. King.

Ark., Helena—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., completed plans for strengthening lower half of Helena Improvement Dist. section of Mississippi River levee, protecting Helena, and soon award contracts: base to be widened, 100 to 120 ft., crown raised 6 ft., section approx. 2 1/4 mi.; use 1,000,000 yd. earth, costing approx. \$500,000; plan beginning construction July 1 to 15. 3-21

Ark., Jonesboro—Fire Fighting—City soon purchase fire engine.

Ark., Marianna—Specialty Dress Mfg. Co., Marvell, plans moving plant here.

D. C., Washington—Palace Laundry, Geo. Marshall, Pres., 729 Ninth St., N. W., let contract to Desibour Construction Co., 1200 15th St., N. W., for addition to laundry, Ninth and H St., N. W.; 80x64 ft., conc. tile, slag roof; \$76,000.

Fla., Jacksonville—Mildale Co., 1010 E. Bay St., establish modern milk plant, 3000 gal. daily capacity, in conjunction with College St. ice plant; let contract to George Hessler, 111 W. Ashley St., for altering building adjacent ice plant.

Fla., Jacksonville—E. E. Burns Construction Co., incorporated; E. E. Burns, Gordon McCauley, Barnett Bldg.

Fla., Jacksonville—Hugh Fleming Co., incorporated; E. Z. Jones, 325 W. Forsyth St.; naval stores products.

Fla., Jacksonville—McLane Construction Co., incorporated; Gordon McCauley, Barnett Bldg.

Fla., Miami—Perry's Dairy, Inc., chartered; W. A. Perry, 1523 N. W. 15th Ave.

Fla., Moss Bluff—U. S. Engr. Office, Jacksonville, has low bid from F. C. Jackson, 2925 Wallantf Ave., Tampa, for constructing bulkhead at U. S. Government Reservation, Moss Bluff Dam, Oklahoma River, Fla., at \$10.90 per lin. ft. (226 lin. ft.). 4-25

Fla., Tampa—W. J. Barratt, Pres., Poinsettia Ice Cream Co., Cass and Marion Sts., reported, announced completed negotiations for merger of following: Poinsettia Ice Cream Co.; Frozenrite Ice Cream Co.; North Park Dairy Depot, all Tampa; Orlando Dairy Co.; Ambrosia Ice Cream & Dairy Co.; Spring Lake Dairy Co., all Orlando; Purity Maid Ice Cream Co., Lakeland; Consumers Ice Cream Co., Bradenton and Sarasota; West Coast Ice Cream Co., Clearwater; Pinellas Dairy Co. and Gilbert's Dairy Co., St. Petersburg; Service Ice Cream Co., Gainesville; negotiating to add others; W. J. Barratt to be president; headquarters, Tampa.

Fla., Tampa—United States Phosphoric Products Corp., Ruskin Rd., let contract to Ingalls Iron Works Co., 720 Fourth Ave., S., Birmingham, Ala., for 635 tons stree. steel for plant. 3-7

Fla., Tampa—U. S. Phosphoric Products Co., Ruskin Rd., acquired tract on Alfa River, approx. 1/2 mi. river frontage, as part of expansion project; probably acquire several hundred more acres now under option.

Ga., Canton—Jones Mercantile Co., let contract in few days for \$27,000 storage plant and creamery; 2-story, 55 x 85 ft., rein. conc., brick, comp. roof, steel sash and doors, conc. floors; following estimating; T. C. Wesley, Bona Allen Bldg.; Arthur R. Myers Co., and Chas. W. Bernhardt, 250 Hunnivent St., N. W., all Atlanta; E. C. Seiz, Archt., 165 Spring St., N. W., Atlanta.

Ga., Macon—Nu-Grape Bottling Co., being organized by Ralph V. Grayson and associates; establish \$30,000 plant; Cecil C. Hays, Archt., 305 Church St.

Ga., Savannah—Mullen, Ellis & Co., Capt. M. W. Waller, Consit. Engr., Ottawa, Canada, Fiscal Agt. for Raymond Mining Corp., establish \$150,000 gypsum plant; operating company known as International Gypsum Co.; plan shipping gypsum from Nova Scotia by water and grinding calcine at plant here; employ about 200; George M. Rommel, Industrial Commr., interested.

Ky., Lexington—Swift & Co., Chicago, Ill., let contract to W. T. Congleton Co., Inc., Third and Walton, for \$30,000 packing plant, Shreve Ave.; 1-story, brick, conc.

Ky., Louisville—International Highspeed Copper Co., capital \$100,000, incorporated; R. L. Buffington, L. G. Mitchell.

La., New Orleans—New Orleans Paint & Color Co., Inc., 700 Barone St., erecting addition.

La., Shreveport—Linde Air Products Co. let contract to J. M. Brown, Ricon-Brewster Bldg., for second unit to plant in Agurs at \$45,772; 1-story, steel, conc.

La., Tallulah—Coca Cola Bottling Co., 207 Walnut St., Monroe, let contract to J. W. Mickey O'Brien, 307 Malvern St., Monroe, for \$50,000 plant; 2-story, 40x70 ft.

Md., Baltimore—Enterprise Wire & Iron Works, Inc., 423 N. High St., has plans for addition; 1-story, 35x90 ft.; \$35,000 with equipment.

Md., Baltimore—Borden Co., 350 Madison Ave., New York, acquired interest in Hender Creamery, through exchange of stock; Borden Co. plans doubling capital stock.

Md., Baltimore—R. L. Kester, V.-Pres., Claude Neon Lights, Inc., 50 E. 42nd St., New York, reported, announced plans for consolidating 30 North American Claude Neon companies and plants, including following in South; Claude Neon Lights of Maryland, Inc., Baltimore and Washington, D. C.; Elliott Claude Neon Lights, Inc., Miami, Fla.; Federal Brilliant Co., St. Louis and Kansas City, Mo.; Munn Sign & Advertising Co., Atlanta, Ga.; W. B. Saunders, Jr., Richmond, Va.

Md., Catonsville—Emil Gathman let contract to North-Eastern Construction Co., 6 W. Madison St., for \$40,000 laboratory, Hill Top and Frederick Rd.; 42x58 ft.; George R. Callis, Jr., Archt., Hearst Tower Bldg.

Md., Cumberland—Potomac Glass Co., M. H. Sloan, Pres., immediately rebuild burned plant; manufacture hollowware, decorated glassware, etc.

Md., Hagerthorpe—Catons Construction Co., incorporated; William J. Schmelyn, William F. Sanders.

Miss., Brookhaven—Fire Fighting—City considering purchasing modern electric fire alarm system; install boxes at various points; general alarm to be given by electrically operated siren.

Miss., Canton—Rainbow Creamery Co., R. L. Boteler, Pres., Jackson, establish whole milk plant, Cameron St.; to be in operation by July 1.

Miss., Greenwood—Mississippi Ginger Ale Corp., chartered; C. E. Powell, N. S. Cole.

Miss., Long Beach—R. Inglis Co., F. L. Hendrickson, Gen. Mgr., erecting 1-acre greenhouse; steam heat, electric refrigeration, glass roof; grow tomatoes and cucumbers.

Miss., Picayune—Dairy Products Co., capital \$20,000, incorporated; V. B. Martin, E. H. Stevens.

Miss., Tupelo—John Anglin establish daily paper, Tupelo Daily News.

Mo., Desloge—St. Joseph Lead Co., 256 Park Ave., New York, and Bonne Terre, Mo., reported, negotiating to acquire Desloge Consolidated Lead Co., Firmin Desloge, Pres., involving approx. \$10,000,000; machinery and equipment to be acquired for additional \$700,000.

Mo., Jefferson City—Weber Ice Cream Co., capital \$45,000, incorporated; John J. Weber, Sedalia; Charles S. Hutchinson, Des Moines, Iowa.

Mo., Joplin—A. S. Jones Mfg. Co., A. S. Jones, Pres., plans moving main plant, manufacturing amusement park riding devices, here from Tulsa, Okla.

Mo., Kansas City—Radford Construction Co., capital \$20,000, incorporated; E. K. Radford, 1009 W. 57th St.

Mo., Kansas City—National Air Control Co., capital \$25,000, incorporated; Frank C. Baker, City Bk. Bldg.; heating, cooling, refrigerating, ventilating devices, etc.

Mo., Kansas City—Southern Doll & Candy Co., W. G. Ryan, 4100 Commerce St., Dallas, Tex., leased building, 510 W. Fifth St.; establish plant to manufacture plaster of paris

novelties and carnival supplies; L. G. Dillon manage local plant.

Mo., Kansas City—Katz Drug Co., Inc., Isaac and Michael Katz, Eighth & Grand Sts., planning coast to coast chain of drug stores.

Mo., Kansas City—Greiner-Field Lithographing Co., 2609 Walnut St., acquired tract, W. Pennway; ultimately establish plant; approx. 50,000 sq. ft. floor space.

Mo., Kansas City—H. D. Lee Mercantile Co., L. C. Staples, Pres., 20th and Wyandotte Sts., fostering establishment of chain of 1000 retail stores, to be served from plant, 20th and Wyandotte Sts.; to be known as High Grade Food Store; members of board include S. V. Scott, 3631 Main St., John Lynn, 4126 St. John Ave., and others.

Mo., Kansas City—Norton Brothers, 103 W. Armour St., erect buildings, Holmes Park St., bet. 18th and 19th Sts.; 1-story building, 100 ft. front, to be occupied by Walgreen Co. for ice cream plant and warehouse; 2-story building, to be occupied by Haver-Glover Laboratories to manufacture medicines for veterinarians' and jobbers' supplies for same profession; Walter A. Besecke, Archt., Huntingz Bldg.

N. C., Charlotte—Foremost Dairy Products, Inc., Hugo J. Larsen, V.-Pres. and Gen. Mgr., Jacksonville, Fla., remodel pasteurization and refrigeration systems and install modern service system of recently acquired Mecklenburg Dairy Co. plant, E. Fourth St. 5-23

N. C., Charlotte—Company headed by Fred H. Plexico, 306 W. Stonewall St., establish plant to manufacture "Plexico Products," top dressing, etc., for automobiles.

N. C., Greensboro—Safety Service Gauge Co., Inc., capital \$150,000, chartered; Nick John, Lambros Andrews.

N. C., High Point—Packer Photo Co., J. H. Packer, soon let contract for \$23,000 building, Russell St.; 2-story; purchasing modern photography equipment.

N. C., Statesville—Sloan's Cleaners & Dyers, Inc., capital \$50,000, chartered; C. R. Sloan, Letta Johnson.

Okla., Tulsa—Forty-Six Star Candy Co., 126 S. Main St., has final plans in progress for candy plant and store building; 2-story, brick, stone, terra cotta; Leland I. Shumway, Archt., Alexander Bldg.; Southwest Engineering Co., Struc. Engr., 910 N. Elwood St.

Okla., Tulsa—Swift & Co., U. S. Stock Yards, Chicago, Ill., erect sausage plant and smokehouse and rebuild entire plant, 2 S. Boulder Ave.; cost over \$100,000; 2-story and basement, with trackage and loading facilities; Tom Wright, Local Mgr., 2 S. Boulder St.

S. C., Rock Hill—Nu-Method Laundry, C. H. Burke, W. Main St., expend \$12,000 to \$15,000 for improvements, including flat iron work machine, quilt, blanket and curtain machine, dry cleaning outfit, etc.

Tex., Abilene—Abilene Construction Co., incorporated; J. R. Horn, E. T. Boyd.

Tex., Childress—Hargrave Laundry, Inc., completed plans for laundry; 1-story, rein. conc., steel trusses, brick, steel sash, 50x140 ft.; Roy K. Hamberlin, Archt., San Angelo, and Builders Exch. Bldg., San Antonio.

Tex., Dallas—Southwestern Foundation Co., capital \$15,000, incorporated; J. H. Murphy, 2308 Lattimer St.

Tex., Dallas—Southwest Dairy Products Co., C. M. Conway, Pres., Santa Fe Bldg., reported, acquired plants of Highland Jersey Dairy; M-B Ise Kream Co. of Dallas; Shaw Bros., Fort Worth; M. B. Ise Kream Co. of Waco, and others.

Tex., Del Rio—News Herald Publishing Co., capital \$50,000, incorporated; Julian L. Larcrosse, Charles T. Pingeton.

Tex., Gainesville—Southern Rubber Mfg. Co., establish plant within 30 days; install equipment to produce about 1000 lbs. daily; employ 25; O. D. Upton and W. F. Collins, promoters.

Tex., Houston—Gillespie Rotary Road Planer Co., capital \$100,000, incorporated; C. O. Gillespie, John H. Schaffer.

Tex., Quanah—Carl Gallagher, McKinney, acquired Quanah Tribune Chief, newspaper.

Tex., San Antonio—Texas Outdoor Advertising Co., 806 Houston St., acquired site for \$35,000 sign manufacturing plant.

Va., Fredericksburg—Sylvania Industrial Corp., Roger N. Wallach, Pres., 122 E. 42d St., New York, reported, completed plans for \$1,000,000 chemical plant, on 200-acre site, between Tidewater Trail and Rappa-

CONSTRUCTION DEPARTMENT

Manufacturers Record

hannock River, 3 mi. south of city, W. W. LaPrade & Bros., Real Estate Exch. Bldg., Richmond, making topographical survey of property; company negotiating to acquire 7000 additional acres; Richmond, Fredericksburg and Potomac R. R. Co., E. Hutton, Jr., Pres., Richmond, construct spur tract to plant; Frank H. Reichel, Gen. Mgr., Westfield, N. J., be in charge; company advises intend to develop and ultimately manufacture patented chemical specialties; development not far enough advanced for any definite announcement. 5-23

Va., Gore—Eastern Silica & Chemical Corp., John F. Penrose, Pres., 232 W. 85th St., New York, announced doubling capacity of plant near here; contracts let for crushers, washers, conveyors and chaser mills, larger Diesel engines and electric generators and pumps; constructing large tipple. 3-28

Va., Norfolk—Southern Spring Mfg. Co., High Point, N. C., subsidiary of Nachman Spring-Filled Corp., L. Burnitein, Pres., Box 706, Chicago, Ill., completed negotiations to establish large plant; begin operations in few days; to be known as Southern Spring Mfg. Co., Inc.; Fred A. Nachman, Chmn. of Bd.; Earl N. Phillips, Pres. 5-9

Va., Petersburg—W. E. Sawyer Tobacco Co., Inc., capital \$25,000, chartered; W. E. Sawyer.

Va., Tappahannock—Old Virginia Food Products Corp., capital \$100,000, incorporated; R. G. Neale, Bowers.

W. Va., Clarksburg—Eagle Convex Glass Specialty Co., F. Aucremanne, Pres., 525 Tuna St., East Clarksburg, announced expansion program, including new plant unit and installation of additional machinery; acquired glass bending and grinding machinery and equipment of Adamstown Flat Glass Co.; new unit 55x45 ft., steel and frame; immediate construction. 5-23

W. Va., Fairmont—Fire Fighting—City plans \$100,000 bond issue for installing fire protection system; Gamewell Fire Alarm Co., Upper Newton Falls, Mass., submitted proposals for installation.

W. Va., Huntington—International Nickel Co., Inc., Arthur S. Shoffstall, Gen. Mgr., Guyan River Rd., expand \$200,000 installing electric furnace, new transmission line and expand power reducing station at rolling mills; plant produces Monel metal.

W. Va., Moundsville—United Zinc Smelting Corp., appropriated \$200,000 for remodeling Moundsville plant, abandon present roasting kilns and install modern scientific roasters; install Gay Lussac towers at acid plant.

W. Va., Welch—Pocahontas Chemical Corp., capital \$10,000, incorporated; W. J. Hatfield, S. M. Infolla.

W. Va., Weston—Balmer-Westite Co., incorporated; M. B. Spragg, Charles M. Smith; manufacture chinaware, crockery and glass specialties.

W. Va., Weston—C. A. Borchert Glass Co., capital \$25,000, incorporated; Andrew Edmiston, Jr., Kenneth S. Kurtz.

W. Va., Wheeling—Pennsylvania & West Virginia Mine Supply Co., capital \$100,000, incorporated; E. C. Mobley, Riley Law Bldg.

Motor Bus Lines and Terminals

Ark., Little Rock—W. W. Gill applied to Railroad Comm. for permission to operate motor truck line, Little Rock to Eldorado, via Sheridan, Princeton, Fordyce and Camden.

Ark., Texarkana—Arkansas Railroad Comm. authorized Grimes & Stephens to operate freight and transfer line, Mineral Springs, on Hwy. 27, to Texarkana, via Fulton and Nashville; Frank Betts to operate line, Emmett to Prescott and to Hope; James Goodwin to operate freight and express line, Hwy. 27, Murfreesboro to Nashville, and on Hwy. 26, Nashville to Delight; J. Z. Rosenbaum to operate freight line, Hope to Okay, via Fulton, McNabb and Saratoga, on Hwy. 67, and to Deadhorse beyond Fulton; also to operate, Hope to Willisville and Bodcaw and Hope to Patmos, Stamps and Lewisville; Nashville Southwest Ry. Co. applied for permit to operate freight and bus service, Nashville to Murfreesboro, on Hwy. 27 and Murfreesboro to Delight, Hwy. 26; Southwestern Loan & Finance Corp. applied for permit to operate, Hot Springs to DeQueen and other points.

Tex.-Ark., Texarkana—Following have sub-contracts for \$150,000 shop building for Southwestern Transportation Co., Rector Bldg., Little Rock, Ark.; Steel, Mosher Steel & Machinery Co., 5209 Maple St., Dallas; steel deck and steel sash, Truscon Steel Co., Youngstown, Ohio; millwork, Atlo Mill & Lumber Co., Texarkana; brick, Acme Brick

Co., Malvern, Ark.; cement, Atlas Portland Cement Co., St. Louis, Mo.; roof, Philip-Carey Co.; Bailey, Burns & Fitzpatrick, Gen. Contr., Mercantile Bk. Bldg., Dallas; Almand & Stuck, Archts., Little Rock, Ark. 5-23

Tex., Austin—Austin Street Railway Co., John F. Springfield, Pres., authorized by City Council to abandon 3 lines and substitute bus service; five 21-passenger buses purchased. 5-21

Tex., Denison—Railroad Comm. approved sale by Rockley & Self to Oklahoma Transportation Co. of Tex., bus line operating, Denison to state line on route, Denison to Madill, Okla. 5-21

Va., Richmond—Virginia Motor Lines, operating lines between Bristol, Roanoke, and Lynchburg, applied to State Corporation Comm. for permission to extend service to Richmond.

Motor Cars, Garages, Filling Stations

Ala., Montgomery—McIntrye Bros., care Mutual Warehouse Co., 101 E. Jefferson St., let contract to H. L. Solomon, Palmetto and Panama Sts., for \$50,000 garage; recently noted let to J. L. Solomon. 5-9

Ark., Ratcliff—Earl Patterson let contract to Kremer Bros. for filling station; to be operated by Lynn Patterson.

Fla., Jacksonville—Albert Kahn, Inc., Archt. and Engr., Marquette Bldg., Detroit, Mich., advises contract awarded Davis Bros., Inc., 1716 Summitt Ave., Richmond, Va., covering architectural and mechanical work in connection with Chevrolet parts building for Argonauta Realty Co., Div. of General Motors Corp.; H. G. Hickey in charge, General Motors Bldg., Detroit, Mich. 5-16

Fla., Lakeland—E. E. Lusk, 318 E. Main St., let contract to J. B. Streiter, 513 E. Orange St., for \$21,283 garage; 1-story, 100x110 ft., stucco, tile, steel roof trusses, conc. floor; W. B. Talley, Archt., 204 Lake Moton Dr. 5-23

Ga., Macon—Bibb Tire Co., W. R. Fenn, Pres., 607 Hillyer Ave., let contract to Chess W. Jones, 25 Wall St., at \$17,000 for filling station, Third and Plum St.; conc. brick. 4-18

Ga., Rockmart—Cedartown Chevrolet Co., let contract to Roy Reese, for \$15,000 garage and sales building; 1-story, 50x100 ft., brick, stucco, steel truss, built-up roof, steel sash and doors, plate glass front, conc. and tile floors; private plans.

Ga., Rome—Milner Motor Co. receives bids until June 10 for \$35,000 garage and sales building; 1 story and basement, 95x131 ft., rein. conc., brick, cast stone trim, struc. steel, tile and conc. floors, plate glass, built-up roof, skylights and ventilators; following estimating: Graham Construction Co., Red Rock Bldg.; Barge-Thompson Construction Co., 136 Ellis St., N. E.; Smith & Williams, Red Rock Bldg.; Arthur R. Myers Co.; Yost Co., Inc., Candler Bldg.; Capitol Construction Co.; Wm. P. Francis, 201 Luckie St., N. W.; Arthur Pew, Jr., Red Rock Bldg., all Atlanta; J. F. Dupree & Sons; Chas. Blackstock; B. F. Camp & Bros.; Broach & Bennett, all Rome; M. Y. Dempsey, Piedmont, Ala.; Brown-Limerick, DeLand, Fla.; Jess Wilholt, Archt., 419 Mortgage Guarantee Bldg., Atlanta. 1-31

La., Monroe—Monroe Auto & Supply Co., 300 Walnut St., has low bid from F. C. McClanahan, Homer, for building, Washington and N. Second St., at \$47,000; 2-story, steel, brick, stone trim, 100x150 ft., built-up comp. roof; for garage, display rooms and stores; J. W. Smith & Associates, Archts., Ouachita Bk. Bldg.

La., Shreveport—Travis Realty Co. let contract through Selmour Van Os, Archt., Merchants Bldg., to H. & B. Construction Co., R'con-Brewster Bldg., for garage, at 818-430. 5-23

Md., Ashton—Derrick Motor Co., incorporated; Howard L. Derrick.

Md., Baltimore—Geo. P. Sacks, 101 Chevy Chase Dr., Chevy Chase, Md., drawing plans for \$35,000 addition to garage, 7620 Wisconsin Ave., N. W.: 2-story, brick; take bids on separate contracts later; L. T. Rouleau, Archt., Investment Bldg.

Md., Baltimore—O'Brien Bros., Inc., 1235 Light St., chartered; John P. O'Brien, Conrad Anzer; motion vehicles.

Md., Baltimore—Guilford Realty Co., 3330 St. Paul St., acquired site, 220 Guilford Ave., bet. Saratoga and Lexington St.; preparing plans for garage; 56x186 ft., 5-story, brick, steel, ramp type; plans probably go out June 1; Palmer & Lambdin, Archt., 513 N. Charles St.

Md., Frederick—Frederick Replacement

Parts, Inc., chartered; Jesse R. Yingling, David H. Goldmann.

Miss., Kosciusko—S. A. Jackson Auto Co., let contract to S. G. McCool, for garage; Estes W. Mahn, Archts., Cotton Exch. Bldg., Memphis, Tenn.

Miss., McComb—L. S. Walker, 1125 Virginia Ave., and associates acquired J. W. McNeese Motor, Oakland and Pontiac dealers; to operate as Walker Motor Co., L. S. Walker, Mgr.

Miss., Pickens—O'Bannon Motor Co. let contract to M. T. Reed Construction Co., Jackson, for garage, at \$15,650; 90x90 ft., rein. conc., brick. 2-21

Mo., Kansas City—Sheidley Estate, care Guignon Real Estate Co., Sterling Bldg., let contract to S. Patti Construction Co., 627 Lee Bldg., for garages and stores, Ninth and Main Sts.; 9-story, brick, rein. conc.; McKecknie & Trask, Archts., Bd. of Trade Bldg.; Frank L. Brown, Engr., Orear-Leslie Bldg. 2-14

Mo., Kansas City—August Eyssell, 3521 Holmes St., erect building; 1-story; to be occupied by Higgins Motor Co., T. M. Higgins, Hudson-Essex dealer, 15th & Wabash Sts.

Mo., LaPlata—Wheatcraft Motor Co., capital \$15,000, incorporated; O. S. Wheatcraft.

Mo., Moberly—Main Tire Co., Louis Bierman, let contract to F. M. Engle for service station, Rollins and Johnson Sts.; 1-story and basement, brick, 70x26; heating and plumbing to Wismann Bros. Heating and Plumbing Co.

N. C., Spruce Pine—North Toe Motor Co., Inc., chartered; R. E. Poole, G. M. Sipple.

Tex., Austin—Magnolia Petroleum Co., 2500 E. Sixth St., erect filling station, First and Neches Sts.

Tex., Austin—Ben Walker, 505 San Jacinto St., let contract to H. E. Wattinger, 801 Paul St., for garage, E. Fifth St., bet. San Jacinto and Trinity St., at \$12,208; 1-story, rein. conc., brick, steel truss, comp. roof, cement floors, plate glass; H. F. Kuehne, Archt., S24 Littlefield Bldg.

Tex., Austin—W. E. McCaleb, Scarborough Bldg., completing plans and soon call for bids for drive-in service station, Fifth and Lavaca Sts.; 1-story, brick, steel, conc., cement floors and driveways, built-up roof, plate glass front; cost \$10,000; Giesecke & Harris, Archts., 207 W. Seventh St.

Tex., Lockhart—W. J. Swearingen receives bids about June 1, for \$30,000 Ford garage; Jeremiah Schmidt, Archt., New Braunfels. 5-16

Tex., San Antonio—J. Grewe, 802 San Marcos St., let contract to Ed. Uhr, 1406 Pasadena St., at \$10,325, for addition to and remodeling service station, N. Laredo and W. Travis St.; plumbing and wiring included; J. W. Wilder, Archt., 224 W. Park Ave.; W. E. Simpson Co., Engr., Natl. Bk of Commerce Bldg.

Tex., San Antonio—Associated Motors, Inc., capital \$75,000, incorporated; W. M. Morgan, 825 W. Magnolia St.

Tex., San Antonio—Grayburg Oil Co., Maverick Bldg., erect \$18,500 garage, Roosevelt Ave.

Va., Norfolk—H. O. Nichols, 300 E. Plume St., and associates let contract to C. Q. Nugent, Law Bldg., for \$75,000 addition to garage, rear 420 Water St.; 1-story, brick; also remodel present building; accommodate 100 automobiles; 18,000 sq. ft. floor space; Rudolph, Cooke & Van Leeuwen, Archts., Arcade Bldg.

Va., Richmond—Davis Bros., Inc., Builders Exchange, have contract for \$150,000 to \$175,000 automobile distributing depot, Altamont and Norfolk Ave., Scotts Addition; 1 and 2-story, 180x147 ft., brick, steel, fireproof; to be occupied by Chevrolet Motor Co., Grace American Bldg. 1-31

W. Va., Clarksburg—Anderson-Stutz Motor Co., capital \$50,000, incorporated; E. H. Anderson, I. D. Cole.

Railways

Mo., Kansas City—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, started work on \$110,000 centralized train dispatching system, Kansas City to Atchison, Kan.; to be completed by Sept., 1929.

Texas—Texas & Pacific Ry. Co., J. L. Lancaster, Pres., Dallas, ordered material for automatic block signals to be installed between Marshall, Tex., and Shreveport, La., 42 mi. from General Railway Signal Co., Rochester, N. Y.; use color signals.

Texas—Southern Pacific Co., P. Shoup, Pres., San Francisco, Calif., ordered 15 cha-

cars from Pullman Car & Mfg. Corp., Chicago, Ill. 5-2

Tex., Childress—Charter of Fort Worth & Denver Northern R. R. approved by Attorney General's Dept.; company subsidiary of Fort Worth & Denver City Ry. Co., F. E. Williamson, Pres., Chicago, Ill., which is part of Chicago, Burlington & Quincy R. R. Co., Chicago; directors of new company include K. M. Van Zandt, T. B. Yarbrough, Wyatt Dr., both Fort Worth; F. E. Williamson and others; immediately apply to Interstate Commerce Comm. for permit to construct line, Childress to Pampa, in the Panhandle, 110 mi., intersect Fort Worth & Denver City at Childress; cost approx. \$4,000,000; Frank E. Clarity, V. Pres. and Gen. Mgr., Fort Worth. 5-16

Tex., Sonora—Kansas City, Mexico & Orient Ry. Co. of Texas, H. E. Beard, Ch. Engr., Wichita, Kan., authorized by Interstate Commerce Comm. to construct 65 mi. line, San Angelo to Sonora; construction to begin by January, 1930. 5-23

Va., Bellwood—Prince George & Chesterfield Ry., subsidiary of Seaboard Air Line Ry., W. D. Fauchette, Ch. Engr., Savannah, Ga., reported, let contract to MacDougal Construction Co., 545 Angier Springs Rd., Atlanta, Ga., for connecting tracks here and extend to Hopewell, 18½ mi.; contract covers approx. 3½ mi. yard and side tracks; main line to be laid with 100-lb. rails; construct bridge across Appomattox River. 5-2

W. Va., Grafton—Baltimore & Ohio R. R. Daniel Willard, Pres., Baltimore, ordered color-position-light automatic block signals to be installed on line between Cumberland, Md., and Grafton, 101 mi. double track, from Union Switch & Signal Co., Swissville, Pa. 4-11

Railway Shops and Terminals

La., Monroe—Illinois Central R. R. Co., A. F. Blaes, Ch. Engr., Chicago, Ill., expend \$350,000 for improvements, including \$100,000 for passenger station, \$50,000 for track changes.

Mo., St. Louis—Wabash Ry. Co., M. F. Long, Ch. Engr., Ry. Exchange, construct \$12,000 fence, 749-801 Hodiamont St.

S. C., Greenwood—Seaboard Air Line Ry. Co., W. D. Fauchette, Ch. Engr., Savannah, Ga., let contract to MacDougal Construction Co., 545 Angier Springs Rd., Atlanta, Ga., for grading, in connection with track extension; program includes 2 additional house tracks, new driveway, extension of passing track and storage tracks; to be completed in 30 days. 5-23

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Alabama—State Highway Comm., Woolsey Finnell, Highway Dir., Montgomery, plans paving 2 sections of Bee Line Highway: 7 mi. road south of Athens, Limestone County; 3 mi. road, south of Cullman, Cullman County. 5-1

Ala., Birmingham—City Comm., receives bids June 4 for 8 paving and 3 sewer projects, costing \$107,000: Sixteenth, Thirtieth, Eighty-sixth St.; Second Court; sewers in Norwood, Sixteenth St., and Tenth Ave.; A. J. Hawkins, City Engr.

Ala., Bay Minette—Baldwin County Bd. of Revenue considering surfacing highway from Foley to Gulf of Mexico, cost about \$40,000; Commrs. J. B. McGraw and A. B. McPhaul, supervise work.

Ala., Mobile—State Highway Comm., Woolsey Finnell, Highway Dir., Montgomery, receives bids June 18 for 21.14 mi. plain cement conc., rock asphalt, sheet asphalt or bit. conc., also cement conc. base and black base, paving Mobile-Calvert and Mobile-Citronelle Highways.

Ark., Conway—City Council plans about 15 blocks paving in Street Improvement Dist. No. 16; Dr. I. N. McCollum, A. J. Landers and B. A. Short, Dist. Commrs.

Ark., DeQueen—City, J. E. Tobin, Mayor, considering paving 3 blocks on Rose Hill and 2 blocks in southern part of town.

Ark., Jonesboro—State Highway Comm., Dwight H. Blackwood, Chmn. Little Rock, receives bids June 15 for Jonesboro-Hickory Ridge road.

D. C., Washington—Dist. Commrs. received low bid from Corson & Gruman, Thirty-third & K St., N. W., \$181,380, to repair cement conc. base and cement roadway and alley pavement. 5-9

Florida—State Road Dept., Robt. W. Bentley, Chmn., Tallahassee, receives bids in July for 4 roads and 5 bridges, Road No. 2, Haines Creek to Eustis; new bridge Over Rice Creek, on Road No. 3; 2 bridges on Road 4, Broward County; bridge on Road No. 4, Palm Beach County; bridge over Withlacoochee River, Road No. 5; Road No. 10, Wakulla County, between Wakulla River and Leon County line; Road No. 17, Hillsborough County, from Plant City to Tampa; bridge over New River, Road No. 28, Bradford to Union Counties; section of Road No. 13, Alachua County; J. L. Cresap, State Highway Engr.

Fla., Belle Glade—Town Council, Pres. Buck, considering additional street paving. See Financial News Columns.

Fla., Miami—City Commrs., H. E. Ross, Chk., receive bids June 10 for street paving in Dist. H. 400, N. W. Twenty-fifth St.; Dist. H. 402, Marler Ave.; pit rock base, sand and oil treatment; C. S. Nichols, City Engr.

Fla., Miami—City Commrs., H. E. Ross, Chk., plan expending \$160,000 to pave Collins Ave. and Bay road; C. S. Nichols, City Engr.

Fla., Pensacola—Escambia County, Winston E. Wheat, County Engr., will start in about 60 days to asphalt surface on standard grade, and install drainage structures, on road, almost paralleling Jackson road; eliminate grade crossing of Frisco lines.

Ga., Atlanta—City, I. N. Ragsdale, Mayor, considering widening Pine St., to Piedmont Ave.; paving Twelfth St., West Peachtree to Spring St.; Fulton County may widen Highland Ave., Virginia to Los Angeles Ave.

Ga., Brunswick—City Comm., Hugh Burford, Sec., plans paving and improving 7 streets and avenues, including Reynolds, George, Howe St.; Palmetto, Sycamore, Elm Ave.

Ga., Columbus—City Commrs. plan expending \$260,000 for street paving. See Financial News Columns. 2-21

Ga., Nahanta—Brantley County Commrs. plan opening public highway from Ray Thomas residence, Burnt Fork road, to Route 50, at Caney Bay.

Ga., Vidalia—City considering paving streets by "Baby" bond system.

Louisiana—Louisiana Highway Comm., O. K. Allen, Chmn., Baton Rouge, receives bids June 18 for 4 roads and 4 bridges: St. Landry Parish—5.8 mi. Clinton-Bluff Creek: Rapides Parish—3.873 mi. Alexandria-Leesville: East Feliciana Parish—13.1 mi. Clinton-Bluff Creek; Bossier Parish—8.103 mi. Bossier City—Arkansas; Bridges: Plaquemines Parish—Doullut Canal Bridge, Gretna-Fort Jackson Highway; Sabine Parish—drainage structures on Many-Converse De Soto Parish line highway; West Feliciana Parish—120-ft. steel span, creosoted pile abutments. Jackson - Wakefield Highway: Caddo and De Soto Parishes—Cypress Bayou Bridge, Shreveport-Mansfield Highway: L. R. Ames, State Highway Engr.

Louisiana—Louisiana Highway Comm., O. K. Allen, Baton Rouge, receives bids June 25 for 9 roads: East Baton Rouge and Ascension Parishes—3.107 mi. 20-ft. conc., Hope Villa-Prairieville Highway, (Air Line); Jefferson Davis Parish—6.061 mi. 18-ft. conc., Lacassine-Welch Highway; Lafayette Parish—9.077 mi. 18-ft. conc., Duson-Lafayette Highway: Lincoln Parish—10.927 mi. 18-ft. conc., Tremont-Ruston Highway; Richland-Madison Parishes—19.300 mi. 18-ft. conc., Delhi-Tallulah Highway: Orleans Parish—14.100 mi. 20-ft. conc., New Orleans—Chef Menteur Highway: St. Mary Parish—5.747 mi. 18-ft. conc., Franklin-Patterson Highway: Rapides Parish—5 mi. 18-ft. conc., Meekes-Cheneyville Highway: Iberia Parish—8.5 mi. 18-ft. conc., New Iberia—Jeanerette Highway: L. R. Ames, State Highway Engr.

La., Bogalusa—City, E. R. Cassidy, Mayor, plans \$250,000 for street paving. See Financial News Columns.

La., St. Joseph—Tensas Parish Police Jury receives bids June 22 for 5.1 mi. grading, bridging, gravel surfacing, Tensas Bluff South road; J. M. Fourmy, Engr., Hammond, La.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, receives bids June 4 for 6 roads: Prince Georges County—3.5 mi. gravel, State Highway, Bowie to Defense Highway, Cont. P-92; St. Mary's County—4 mi. gravel, from end of State Road to Point Lookout, and from Confederate Monument to Scotland Beach, Cont. SM-51; Caroline and Queen Anne Counties—1.1 mi.

cone., from Templeville to Delaware line, Cont. CO-49 and Q-49; Queen Anne's County—1.24 mi. conc., Sudlersville-Delaware Line road, end of Cont. Q-44, toward Delaware Line, Cont. Q-48; Wicomico County—1 mi. conc., Mt. Herman road, end of macadam near Salisbury toward Powellsburg, Cont. WI-51; Worcester County—1 mi. conc., Pocomoke-Cedar Hall road, end of Cont. WO-48 toward Cedar Hall, Cont. WO-63; L. H. Stewart, Sec.

Md., Baltimore—City, Bd. of Estimates, authorized paving Franklin St. with asphalt, Howard to Eutaw; paving Berger, Forest View, Powell and Valley View Ave., with conc.; pave other streets; cost about \$87,000; Nathan L. Smith, Highways Engr.

Md., Centerville—Town Commrs., E. Sterling Price, Sec., received low bid from Field, Marshall & Underwood, 620 Commercial Trust Bldg., Philadelphia, Pa., \$19,258, for about 1 mi. conc. roads; Lloyd T. Emory, Engr., Harrison Bldg., Phila., Pa. 5-16

Md., Cumberland—City, Thomas W. Koon, Mayor, receives bids June 3 for 3720 ft. conc. curb, 4500 sq. yd. conc. base, 16,200 sq. yd. black top surface, etc., on Maryland Ave., Central Ave. to Oldtown road; R. L. Rizer, City Engr.

Md., Frederick—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, received low bid from M. J. Grove Lime Co., Lime Kiln, Md., \$22,333, for 1 mi. conc., Ballenger Creek road. 5-16

Md., Towson—Baltimore County Comm., John R. Haut, Ch. Chk., receive bids June 4 for 3 roads in Group No. 10; 2 roads, Group No. 11: Group No. 10—60 mi. conc. Glen Arm road, from end of conc. to Harford road; Eleventh Dist.; 1 mi. conc., Old York road, from end of conc. south, Tenth Dist.; Group No. 11—9 mi. conc., Belmont road, end of conc. to Butler road, Fourth Dist.; 7.5 mi. conc., Green Spring Ave., end of conc. to Smith Ave., Third Dist.; Samuel A. Green, Roads Engr.

Miss., Aberdeen—Monroe County Bd. of Supvrs. receives bids about June 3 for 1 mi. conc. road, and conc. bridge across Tombigbee River, on Highway No. 45, east of Aberdeen, estimated cost \$150,000; G. A. Draper, State Highway Engr., Jackson. 5-9

Miss., Holly Springs—Bd. of Commrs., Byhalia-Barton Road Dist., and Marshall County Bd. of Supvrs., receive bids June 3 for 3 roads, totaling 18 mi.: 3 mi. to north of Victoria; 3 mi. to south; 12 mi. north and south through Byhalia, from Watson to Tennessee line; estimated cost about \$100,000.

Miss., Marks—Town, Chas. P. Smith, Mayor, receives bids June 13 for 5,000 sq. yd. rock asphalt or gravel base, street paving, 1,500 cu. yd. excavation, 1,450 lin. ft. combined curb and gutter, inlets, manholes, 600 lin. ft. sewers, Bobo & Collier, Engrs., Clarksville. 5-2

Miss., Meridian—Lauderdale County Bd. of Supvrs., Bryce Stephens, Pres., plans expending \$800,000 to repave block surface roads in Dist. No. 1; Lee Brandan, Engr. See Financial News Columns.

Miss., Poplarville—Pearl River County Bd. of Supvrs., H. K. Rouse, Chk., receives bids June 3 to gravel 4½ mi. public road, from S. L. Jarrell, Jr.'s place to intersect River road, at Charlie Mitchell's place; also 3½ mi. road from George Ford Bridge, on Hobolchit Creek to Mill Creek.

Miss., Rolling Fork—Sharkey County Bd. of Supvrs., W. H. Carroll, Chancery Chk., receives bid June 3 for 20,000 cu. yd. road embankment.

Missouri—State Highway Comm., Jefferson City, plans improving 6 roads in Jackson County: widen pavement to 36 or 40 ft. on U. S. Highway No. 71 into Kansas City; double track U. S. Highway No. 40 to Grain Valley; pave Highway No. 35, Harrisonville to Lees Summit; paving across Missouri River bridge to Liberty, connecting with Eads Celsior Springs road; extend Highways 10 and 61 from Winwood Corner west to No. 71; extend Highway No. 59, Parkville road, from point west of Kansas City water works along river west of railroad tracks to municipal airport and to Hannibal free bridge; widen Highway No. 24 east of Buckner; T. H. Cutler, State Highway Engr.

Mo., Adrian—City plans 15,000 yd. conc. paving; J. W. Shikles & Co., Engrs., New York Life Bldg., Kansas City.

Mo., Clayton, St. Louis—St. Louis County, Roy Jablonsky, Highway Engr., receives bids June 5 to improve Fox Creek road, Pfleifers property to Franklin road; Hanley road, Page to Olive St. road.

Mo., Clayton, St. Louis—St. Louis County received low bid from Skrainka Construction Co., Security Bldg., \$13,255, to pave Laclede Station road; from C. M. Berry Construction

Co., 7370 Manchester Ave., \$8,093, to pave Big Bend Blvd. 5-1

Mo., Fayette—City Council plans graveling 4 streets, including Elm, Howard, Graves, Besgrove.

Mo., Joplin—City Council plans expending \$33,437 to improve 3 streets: New bricks in center of Joplin St., Fourth to Sixth, with bit. filler and top; conc. pave Illinois Ave., Seventh to Fifteenth St.; conc. pave D St., Main to Jefferson; approved following projects: Conc. sidewalks on Thirteenth St.; conc. curbs and gutters on Main St.; macadam surface Galena Ave.

Mo., Kirkwood—City, W. J. Donworth, Clk., received low bid from Flinn Paving Co., 1405 S. First St., \$11,005, to pave Bingham Ave. with refined asphalt surface, 6-in. conc. base, 4-ft. conc. gutters.

Mo., Marshall—City, preliminary plans for \$25,000 grading and conc. paving; J. E. Rider, Engr.

Mo., Springfield—City Council plans widening 21 to 35 ft., and resurfacing Cherry St., South National Ave. to Weller Ave.; paving Weller Ave., Walnut to Cairo St.; S. R. Fisher, preparing plans.

Mo., St. Louis—City, Bd. of Public Works, receives bids June 11 for grading and 15,690 sq. yd. conc. paving alleys in various sections; W. W. Horner, City Engr.

Mo., St. Louis—City, Bd. of Public Works, receives bids June 11 for paving and sidewalks on Arsenal St. Vladut.

Mo., St. Louis—City, Bd. of Public Service received low bids, \$177,249 to pave 10 streets, including Esther, Walbridge, Oregon Ave.; A. C. Butterworth, Buder Bldg.; Frank A. Stiers, Garrison & Magazine St.; Skrainka Construction Co., Security Bldg.; Bridges Asphalt Paving Co., 1470 Kentucky St.; Crean & Scott Construction Co., 1242 Sublet St.; Trinidad Asphalt Co., Rankin Ave.; Flinn Paving Co., 1405 S. First St.

Mo., St. Louis—City, Bd. of Public Service considering improving Spring Ave.: Open Spring Ave., Flinney to Bell Ave.; widen, from 60 to 80-ft. between Cass Ave. and Meramec St.; open Avenue across Tower Grove Park, and erect viaduct across Mill Creek Valley R. R. tracks.

N. C., Greensboro—Guilford County Comms., D. L. Donnell, County Mgr., receive bids June 4 for about 14 surface treated roads totaling 40 mi.; 76,500 cu. yd. excavation, 39,500 cu. yd. top soil surfacing, 26,300 cu. yd. artificial sand clay, 3,000 tons broken stone base, 436,200 sq. yd. bit. surface treatment; C. O. Lowe, County Engr.

N. C., Williamston—City, G. H. Harrison, Clk., receives bids June 3 for 6000 sq. yd. street pavement, 17,000 sq. yd. conc. sidewalks, 2,000 sq. yd. private driveways; Geo. J. Brooks, Engr.

N. C., Winston-Salem—City, Harry L. Shiner, Commr. of Public Works, received low bids \$12,562, to pave 2 streets with sheet asphalt; Powell Paving Co., and Atlantic Bitulithic Co., both Wachovia Bk. Bldg.

Okla., El Reno—City, Mgr. Fassett, plans expending \$12,288 to gravel East side, including street improvement in Fair Addition.

Okla., Heavener—City, G. D. Hughes, Acting Mgr., receives bids June 5 for 13,800 sq. yd. 37-ft. wide, 6-in. conc. paving, estimated cost \$38,000; V. V. Long Engineering Co., Colecord Bldg., Oklahoma City. 5-23

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans widening Third St., 20 ft., Broadway to Walnut; 18 ft., Broadway to Santa Fe tracks; W. W. Small, City Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans 10,000 sq. yd. grading and conc. paving, Harvey and Madison St.; cost \$28,640; 6600 sq. yd. sheet asphalt paving, Lessont Dr.; cost \$33,900; W. W. Small, City Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., and Oklahoma County, County Engr., James, graveling Pennsylvania Ave., and repairing bridges, from Packington to city; considering underpass, where Frisco right of way crosses Reno Ave., and Grand Blvd., east of city.

Okla., Tulsa—City, Dan Patton, Mayor, plans receiving bids to pave Delaware Ave., Eleventh to Fifteenth St.; plans expending \$11,425 to pave Sixteenth St., Florence to Harvard Ave.

Okla., Tulsa—City, Dan Patton, Mayor, plans grading and 9000 sq. yd. conc. paving, Kenosha St.; cost \$26,670; K. R. Teis, Engr.

Okla., Yale—City plans expending \$8,475 for grading and 7000 sq. yd. asphaltic conc. paving; \$26,380 for grading and 8000 sq. yd. conc. paving; C. A. Wood, Engr., Stillwater.

South Carolina—State Highway Comn.,

Ben M. Sawyer, Ch. Highway Commr., Columbia, received low bids for paving and top-soiling 6 roads: Greenville-Dickens Counties—10.227 mi. Route 2, Greenville to Easley, Ballenger Paving Co., Greenville, \$216,065; Pickens County—5.991 mi. Route 2, Liberty to Central, Ballenger Paving Co., \$120,266; Berkeley County—3.29 mi. Route 17, approaches to overhead bridge near Mount Holly, Pritchard, Raines, Hazelhurst Construction Co., Savannah, Ga., \$12,892; York County—.775 mi. grading and top-soiling, Route 5, town of York, J. L. Carroll, Columbia; Greenville County—2.507 mi. paving Route 25, Greenville to Travelers Rest, Porter Construction Co., Dothan, Ala., \$54,974; Greenwood County—1.05 mi. Route 10, from present paving in Greenwood, Greenwood County, through Connie Maxwell Orphanage grounds, Robt. G. Lassiter & Co., Colombo, \$24,548.

S. C., Darlington—State Highway Comn., Ben M. Sawyer, Ch. Highway Commr., Columbia, plans soon resurfacing Highway No. 30, from Hartsville, Darlington County, to intersection with Route 34.

Tenn., Knoxville—City, W. W. Mynatt, Dir. of Public Service, considering widening to 54 and 40 ft., and paving 12,200 lin. ft. Kingston Pike, Third Creek to Lyons View Park; Harry J. Wight, City Engr. 5-23

Tenn., Lookout Mountain—Town, J. B. Pound, Mayor, plans highway improvement. See Financial News Columns.

Tenn., Memphis—City plans expending \$41,164 to repave, with asphalt, 4,438 ft. Main St., Linden to Poplar Ave.; W. L. Fowler, City Engr.

Tenn., Memphis—Memphis Street Ry. Co., plans expending about \$700,000 to rebuild 5 streets and resurface about 15 streets, including Cleveland St., Vance Ave., Mississippi Blvd.; Will B. Fowler, City Engr.

Tenn., Abilene—Palo Pinto County considering expending \$1,700,000 for roads. See Financial News Columns.

Tenn., Brownfield—City plans expending \$60,000 for 20 blocks street paving in business dist. See Financial News Columns. 4-25

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, receives bids June 3 to widen Chaparral St., Starr to Mann. 5-23

Tex., Crockett—Houston County Comms., plan expending \$50,000 for 10 mi. Highway No. 19, Grapeland Precinct. See Financial News Columns.

Tex., Cuero—City plans street paving in business and residence sections: Gorbales St., Prairie to First; Reuss Blvd.; South Line St.; North Railroad Ave.; railroad crossings; Esplanade extension; West Main St.

Tex., Dallas—City, J. Waddy Tate, plans paving Scott St., Seventh to Tenth St.; John M. Young, City Engr.

Tex., Dallas—Dallas County Comms., Court, Charles E. Gross, County Auditor, received low bid from Janes Contracting Co., S05 Trunk St., Dallas, \$169,907, for 3.23 mi. 40-ft. conc. paving, Buckner Memorial Blvd., East Pike to Garland.

Tex., El Paso—City plans paving Florence St., Blacker to Blanchard; Wheeling St. Louisiana to Alabama St.; G. R. Daniels, City Auditor.

Tex., Fort Worth—City, E. O. Carr, Mgr., plans expending \$2,000,000 for grade separation (underpasses or overpasses) through Texas and Pacific Reservation, and through area occupied by tracks of Santa Fe and 3 other railroads; opening and widening West Front St., Main to North; storm and sanitary sewers. See Financial News Columns.

Tex., Fort Worth—City, O. E. Carr, Mgr., considering widening to 80-ft., Hemphill St., Rio Grande to Magnolia Ave.; D. L. Lewis, City Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., received low bid from Hughes & Everett, Third and Commerce Sts., \$30,177, to pave with asphalt, Harrington, Lee and Illinois Ave. and Boyce St.; from Standard Paving Co., Majestic Bldg., \$5,130 for asphalt on Arlington Ave.; from General Construction Co., Cappo Bldg., to widen and repave with brick on conc. base, \$102,895, S. Main St.; at \$92,770 for rock asphalt; Dudley L. Lewis, City Engr. 5-16

Tex., Fredericksburg—Gillespie County, Herman Usemer, County Judge, plans expending \$360,000 to hard surface main roads, including Pecan Belt Highway, from Llano County, through Fredericksburg to Kerr County line. See Financial News Columns. 5-16

Tex., Laredo—Webb County, Justo S. Penn, County Judge, plans 2½ mi. 100-ft. boulevard along San Bernardo Ave.; T. E. Huffman, County Highway Engr.

Tex., Littlefield—City, J. W. Ratekin, Sec., plans expending \$10,000 for street paving. See Financial News Columns.

Tex., Memphis—Hall County, Turkey Precinct, plans 22 mi. paving, from Turkey south to Mottle County line; Turkey west to Bristol County line, and Turkey east to east line of precinct. See Financial News Columns.

Tex., Palestine—Anderson County, E. H. Shelton, County Judge, receives bids July 10 for 5 mi. grading, draining and gravel surface road; Chas. Kendall, County Engr.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans opening Ave. A into Municipal Auditorium Plaza; \$45,000 available; I. Ewig, City Engr.

Tex., San Antonio—City, Fred Fries, Clk., receives bids June 3 to improve Wickes St., Barbe to Temple; I. Ewig, City Engr.

Tex., Sulphur Springs—Hopkins County considering expending \$1,500,000 for north and south highway through county, and numerous lateral roads. See Financial News Columns.

Tex., Waco—City, E. E. McAdams, Mgr., receives bids June 4 to pave 8 streets and avenues and lay sidewalks, including Elm, Austin, Brook Ave.; Sixth, Fifth, South, Fourth St.; 38,250 sq. yd. Warrenite, bitulithic, Amesite, limestone rock asphalt; 1,115 lin. ft. conc. sidewalks; 3,150 sq. yd. Warrenite bitulithic, limestone rock asphalt, asphaltic conc. or conc.; 1,186 lin. ft. monolithic gutter, 332 lin. ft. combination curb and gutter, 1,050 cu. yd. excavation; J. H. Strange, City Engr.

Virginia—State Highway Comn., H. G. Shirley, Commr., Richmond, received low bids for 4 roads: Henrico County—7 mi. conc., Route 31, Richmond to Brook road, G. Y. Carpenter, Chester; Campbell and Pittsylvania Counties—6.92 mi. conc., Route 14, from Altavista, A. N. Campbell Co., Inc., Peoples Natl. Bk. Bldg., Lynchburg; Nansemond County—5 mi. grading, draining, Route 505, constituting A. C. L. approaches, Marye & Blankenship, Shawsville; Amelia and Chesterfield Counties—96 mi. gravel roadway, Route 20, approaches to Appomattox River Bridge, Marye & Blankenship. 5-16

Virginia—State Highway Comn., H. G. Shirley, Commr., Richmond, receives bids June 11 for 5 roads and 2 bridges: Scott County—4 mi. grade and drain, Route 106, from Sunbright, 11,911 cu. yd. excavation; Pulaski County—2 mi. Route 10, from Radford, applying 47,000 gal. oil; York County—6.6 mi. gravel, Route 514, from point south of Yorktown, 19,620 cu. yd. excavation, 4,667 lb. rein. steel, 18,395 cu. yd. gravel; bridge over Poquoson River, 14,110 lb. rein. steel; Clarke County—4.5 mi. rock asphalt, Route 37, from Berryville, 34,661 cu. yd. excavation, 3,941 lb. rein. steel, 48,482 sq. yd. rock asphalt; Augusta County—four 30-ft. conc. spans, Route 39, from Churchville over Whiskey Creek, 45,295 lb. rein. steel; Lee County—8 mi. stone, Route 106, from Tennessee Line.

Virginia—State Highway Comn., H. G. Shirley, Commr., Richmond, plans improving and maintaining 3 sections of roads in Springfield and Shenandoah Iron Works Districts: 2.4 mi. northern end of Eastside Highway, connecting links between Luray, Page County, and Front Royal, Warren County; 3.4 mi. Bixler's Ferry road in Luray and Springfield Dist.; widen Shomo Hill road in Shenandoah Iron Works Dist.

Va., Hopewell—City, Roy S. Braden, Mgr., plans expending \$550,000 for street improvement. See Financial Columns. 5-16

Va., Norfolk—City, I. Walke Truxton, Mgr., considering various street improvements: Pave Thirty-sixth and Thirty-seventh Sts., Colley to Colonial Ave.; improve streets and install sewers in Granby Shores; build shoulders on Colley Ave.; build approaches to new bridge.

Va., Richmond—City, R. Keith Compton, Dir. of Public Works, receives bids May 31 for 2,900 sq. yd. conc. paving alleys; and 9,910 sq. yd. conc. sidewalks in various sections.

W. Va., Beckley—Raleigh County plans expending \$125,000 for roads in Trap Hill Road Dist. See Financial News Columns.

W. Va., Charleston—City, Hugh Walker, Mgr., plans repaving South Side road, east of Chesapeake & Ohio Station; H. L. Campbell, City Engr.

W. Va., Huntington—City, A. R. Hunt, Sec., Bd. of Park Comms., receives bids June 8 to grade, curb, pave and hard surface treat North Blvd., from Eighth St. East to Fifth St. West.

W. Va., Wheeling—Ohio County Court, J. B. Thompson, Pres., receives bids after July 1 for 20-ft. wide conc. surface, Jefferson Ave. extension road from north end of Jefferson to top of hill at Tomlinson's crossing.

Contracts Awarded

Ala., Birmingham—City Comm., let contracts totaling \$133,061 to pave Third Ave. Center to Seventh, to Wesco Co., 4501 Second Ave., N.; Third Ave., Seventh to Seventeenth St., H. N. Bowdry, Martin Bldg.; Bessemer road, Ave. T to Ave E, Ensley, Wesco Co.; Bessemer road, Court to Ave. M, Ensley, Wesco Co.; A. J. Hawkins, City Engr.

Ala., Boza—Town, W. W. Creel, Mayor, let contract to Sullivan, Long & Hagerty, Bessemer, \$11,995, to pave 8 blocks through main section of town. 4-23

Ark., Conway—Hogan Construction Co., Little Rock, has contract, \$50,188, for paving in Annex No. 1, Street Improvement Dist. No. 11, including repaving and paving Locust St., Prairie St. and Railroad Ave.; sold bonds.

Ala., Jasper—Walker County Bd. of Revenue, O. L. McLaughlin, let contract to A. J. Brown, Jasper, \$68,000, for grading, straightening and widening 7.09 mi. 25-ft. wide Gorgas road, conc. culverts. 5-2

Ark., Jonesboro—City let contract to Phoenix Construction Co., Fort Smith, \$27,000 to pave Nettleton Ave. and Flint St., South Jonesboro; Guy Cobb, Engr.

Fla., Gainesville—Bd. of Bond Trustees, Special Road & Bridge Dist. No. 1, Alachua County, W. R. Thomas, Chmn., let contracts for 24 mi. grading, draining roads; and 21 mi. 223,000 sq. yd. hard-surfacing roads: To Duval Engineering & Contracting Co., Dyal Upchurch Bldg., Jacksonville, \$172,000, hard surface; L. M. Gray, Gainesville, \$26,000, hard surfacing; Curry & Turner, Bradenton, \$91,000 for grading; Central Florida Construction Co., Green Cove Springs, \$8,500, bridges; Henry L. Baker, Dist. Engr. 5-16

Fla., Ft. Barrancas—Quartermaster Corps, let contract to L. M. Harvey, East Garden St., Pensacola, for 3,500 ft. conc. curbing. 5-9

Georgia—State Highway Dept., Atlanta, let contract to Nichols Construction Co., Atlanta, to complete fills on Oglethorpe Highway between Ludowici, Long County, and Doctortown, Wayne County; to Roanoke Bridge & Iron Co., Roanoke, Va., for steel trusses.

Ky., Louisville—City, Bd. of Public Works, Jos. F. Lawton, Chmn., let contracts for asphalt, asphaltic conc., natural rock asphalt and conc. paving, curbing, gutters, etc., on 14 streets, costing about \$125,000: Andrews Asphalt Paving Co., Inc., Inter-Southern Bldg.; Henry Bickel Co., Inc., 435 Garden St.; F. G. Breslin, Thirty-second and Market St.; Geo. M. Eady Co., 340 Byrne St.; Louisville Asphalt Co., Floyd & Lee St.; A. A. Krieger, Ch. Engr.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, let contracts for 4 roads: Caroline County—1.72 mi. conc. end of Cont. Co-47 to Baltimore Corners, P. D. Phillips & Bro., Salisbury, \$37,345; Cecil and Kent Counties—7.9 mi. conc. shoulders, Chesapeake City to Caytons, from Cecilton to Sassafras River, from Galena to Sassafras River, P. D. Phillips & Bro., \$31,808; Montgomery County—7.34 mi. conc. shoulders, Urbana Pike, Frederick County line to Henderson's Corner, Long, Tenney Co., Hagers-town, \$49,536; Anne Arundel County—1 mi. conc., Annapolis Blvd., Severna Park toward Benfield, Christhill & Ensey Co., 1625 Ridgely St., Baltimore, \$17,484; L. H. Steuart, Sec. 5-25

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, let contract for 4 roads: Cecil County—2.91 mi. conc. Appleton to Fall Hill, Continental Contracting Co., Knickerbocker Bldg., Baltimore, \$60,369; Harford County—1.5 mi. conc., Jarrettsville to Upper Crossroads, Harry T. Campbell Sons Co., Towson, \$32,202; Charles County—2 mi. gravel Gallant Green, Jarboe & Houghton, Mechanicsville, \$12,443; Prince Georges County—3.54 mi. conc. shoulders and bit. conc. surface, T. B. to Mattawoman, P. Flanigan & Son, Harford Road and B. & O. R. R., \$57,588; L. H. Steuart, Sec. 5-9

Missouri—State Highway Comm., Jefferson City, let contracts for 55 roads: Andrew County—1.89 mi. 20-ft. conc., Pioneer Construction Co., Glover Bldg., Kansas City; Adair County—2.879 mi. 10-ft. conc., W. C. Johnson, Belleville, Ill.; Barton County—4.039 and 4.068 mi. 20-ft. conc., Koss Construction Co., Des Moines, Iowa; Bates County—4.890, 3.750, 4.072, 1.912 mi. 20-ft., Harrison Engineering & Constructing Corp., Mutual Bldg., Kansas City, 473 mi. 18-ft. conc., E. D. Tyner Construction Co., 14th

& Elmwood Sts., Kansas City; Cass County—3.163, 4.743 and 4.434 mi. 20-ft. conc., Harrison Engineering and Construction Co.; Grundy County—4.834 mi. 10-ft. conc., Ziegler Brothers Construction Co., S. Green St., Greensboro, N. C.; Johnson County—2.424 mi. 2-ft. conc., C. F. Lytle, Sioux City, Iowa; Lafayette County—4.545 mi. 20-ft. conc., C. F. Lytle; Livingston County—4.924 mi. 10-ft. conc., Ziegler Brothers; Macon County—3.920 mi. 10-ft. conc., W. C. Johnson.

In Madison County—4.873 mi. 20-ft. conc., Service Construction Co., Poplar Bluff; St. Francois County—3.974 and 3.852 mi. 20-ft. conc., W. D. Lomergan Construction Co., Jacksonville, Ill., 4.245 mi. 20-ft. conc., Service Construction Co.; Shelby County—4.963, 4.043, 3.949 and 2.205 mi. 20-ft. conc., Koss Construction Co.; Henry County—2.506 and 3.124 mi. 20-ft. conc., Davis Construction Co., Boonville, Mo.; Howard County—5.094 and 4.449 mi. 18-ft. conc., Koss Construction Co.; Christian County—4.214, 4.767 and 4.302 mi. 18-ft. gravel, Chaney & Amyx, Branson; Crawford County—1.341 mi. 18-ft. gravel, C. F. Johnson, Buffalo, Mo.; Gasconade County—1.341 mi. 18-ft. gravel, Gaines Bros. Co., Fairland, Okla.; Laclede County—2.862 mi. 18-ft. gravel, Rudell & Thomas, Springfield, Mo.

In Monroe County—2.841 mi. 18-ft. gravel, Graham Brothers, Leeds, Mo.; Osage County—3.167 mi. 18-ft. gravel, John Spicaufsky, 2452 Benton Blvd., Kansas City; Perry County—3.027 and 2.882 mi. 18-ft. gravel, Gaines Bros. Co.; Putman County—3.275 mi. 18-ft. gravel, Dees Brothers, Oblong, Ill.; St. Charles County—3.792 mi. 18-ft. gravel, LeClair Construction Co., Chester, Ill.; Taney County—4.622 and 2.341 mi. 18-ft. gravel, John Spicaufsky, and Chaney & Amyx; Washington County—1.099 mi. 18-ft. gravel, Troy Construction Co., Troy; Webster County—3.153 mi. 18-ft. gravel, R. H. Sharp, Reeds Springs, Mo.; Atchinson County—915 mi. 30-ft. graded earth, T. J. Morris, St. Joseph; Carroll County—246 mi. 30-ft. graded earth, Pioneer Construction Dent County—4.430 mi. 30-ft. graded earth, J. P. Sparks, Kirkwood, Mo.; McDonald County—3.977 mi. 30-ft. graded earth, M. E. Gillioz, Monett; Nodaway County—2.361 mi. 30-ft. graded earth, T. J. Morris, T. H. Cutler, State Highway Engr. 4-25

Miss., Marks—See Roads, Streets, Paving.

Mo., Clayton, St. Louis—St. Louis County let contract to Bangert Bros. Construction Co., 44 S. Florissant Road, \$11,992, to pave Riva Ave., Broadway to Telegraph road.

Mo., Clayton, St. Louis—St. Louis County, Walter E. Miller, Clk., let contract to M. J. Davidson, Jr., 4366 Lindell Blvd., \$26,622 for 20-ft. conc. strip on North and South road, in city of Richmond Heights; to William Watters, 2611 S. Kingshighway, both St. Louis, \$26,425, to pave with 20-ft. conc. strip, Hanley road, Manchester road to Bruno Ave. 5-2

Mo., Joplin—City Council let contract to V. E. Koch, 419 Joplin St., \$1.50 per sq. yd., to pave Eighth St. with conc. and squeegee asphalt top, Main St. to Kentucky Ave.; \$1.93 per lin. ft. conc. tile sanitary sewer between Pearl and Byers Ave.

N. C., Durham—Duke University let contract to F. J. McGuire, Geer Bldg., Durham, N. C., for 30,000 sq. yd. paving, in connection with university building program. 5-9

N. C., Durham—City, R. B. Rigsby, Mgr., let contract to F. J. McGuire, Bankers Tr. Bldg., Norfolk, Va., for 30,000 sq. yd. lake asphalt street paving. 5-16

Oklahoma—State Highway Comm., John H. Rightmire, Asst. State Highway Engr., Oklahoma City, let contracts for 2 roads and 3 bridges: Tillman County—3.4 mi. grading, draining, (State Highway No. 24, south of Tipton, J. S. Wade & Sons, Sulphur, \$8,248; Pontotoc County—12 mi. grading, draining, between Ada and Stonewell, S. E. Gray, \$64,616; Tulsa County—bridge over Anderson Creek, U. S. Highway No. 64, 1 1/2 mi. west of Sand Springs, E. G. Fike & Son, 2331 E. Independence St., Tulsa, \$14,395; Delaware County—repairing bridge at Grove, State Highway No. 25, R. R. Tway, 237 E. 15th St., Oklahoma City, \$26,887; Caddo County—timber trestle bridge, west of Bridgeport, U. S. Highway No. 66, Gaines & Yeoukm, Pontotoc County—Oklahoma Portland Cement Co., Oklahoma City, \$6,989, to furnish cement for bridge.

Okla., Tulsa—City, Dan Patton, Mayor, let contract to H. L. Cannady Paving Co., 1116 S. Lewis St., \$91,934, to pave Fifth Ave.

and widening Fifth, Sixth and Seventh Sts.; to Porter Construction Co., Lewis & Frisco Tracks, \$14,040, to pave Admiral Court from Delaware to College Ave.; K. R. Teis, City Engr. 5-9

Tex., Corpus Christi—City, Theo. Koester, Sec., let contract to Brown & Root, Corpus Christi to widen and pave with asphalt, conc. base, Leopard St., Black to Last; Glen R. Blackburn, City Engr.

Tex., Dallas—City, J. Waddy Tate, Mayor, let contract to James Stanton & Son Construction Co., for about 6 blocks street paving.

Tex., Galveston—H. J. Hetkes, Twenty-second and Ave. C, has contract, \$155,728, for 3.787 mi. conc. pavement, Highway No. 6-A, Galveston County; C. C. Washington, County Engr. 4-4

Tex., San Antonio—City, Fred Fries, Clk., let contract to Southwest Bitulithic Co., 302 Castro St., \$20,056, to improve East Euclid Ave., Main to Jones Ave.; I. Ewig, City Engr. 5-9

Va., Clarendon—State Highway Comm., H. G. Shirley, Commr., Richmond, let contract to Jarboe & Houghton, Mechanicsville, Md., \$34,000 for 3.227 mi. 18-ft. gravel, surface treatment, Glebe road, from Lee Highway to point near Columbia.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Birmingham—City let contract to John Hamm Const. Co., Martin Bldg., for storm sewers on Decatur Pike; C. M. Burkhalter, Suburban Hotel, for sanitary sewers in South East Lake.

D. C., Washington—Dist. Commrs. let following contracts for sewers, bids opened May 9: Kansas Ave. sewer, 13th and Longfellow Sts. service, Whittier St. combined system and Falls Branch stormwater, Sec. 7 to W. F. Brenizer Co., 101 New York Ave., N. E.; 12th St. relief and Conn. Ave. and Ordway St. stormwater, to W. A. Pate, Jr., Rockville, Md.; S. D. Ave. sanitary and stormwater and Davenport St. service, to The M. Cain Co., Inc., 13 Sixth St., N. W. 5-2

Fla., Miami—City extending sewers in Pinetree Drive and Sheridan Ave.; cost \$50,000.

Ga., Columbus—City voted park and playground and sewer bonds. See Financial News Column. 2-21

Ga., Rockmart—City will have plans completed by July 1, by Robert & Co., Inc., Engrs., Atlanta, for about 5 miles sewer.

Ky., Bardstown—See Harrodsburg.

Ky., Catlettsburg—Charles Menshouse, Ashland, has contract for sewer system in Morse Hollow.

Ky., Harrodsburg—Tevis & Ingram, Contrs., Danville, have contract for trunk line sewer at Harrodsburg, cost \$35,000, and for sewer disposal plant at Harrodsburg, cost \$40,000; Pease Greeley and Hansen, 6 N. Michigan Blvd., Chicago, Engrs. for both projects.

La., New Orleans—Sewerage and Water Bd., A. G. Moffat, Sec., receives bids July 17 for following improvements: Cont. 204-D, constructing lined and covered drainage canal and pipe lines in St. Claude Ave., from Bernard Parish line; Cont. 200-S, motors, switchboards, transformers and accessories for stations, 16, 17 and 18 and B; and Cont. 201-S, constructing sewage pumping stations, 16, 17 and 18; plans, etc. on application.

La., Port Allen—City, Thos. L. Cronan, Mayor, probably call for bids in July for sewers.

Md., Salisbury—City receives bids June 3 for storm water drains and appurtenances. See Want Section—Bids Asked.

Mo., Joplin—See Roads, Streets, Paving.

Mo., Springfield—City considering bond election for sewers; J. P. Ramsey, City Commr. of Street.

Mo., St. Louis—Bd. of Public Service receives bids June 11 for Western Mill Creek Public Relief Sewers.

N. C., Lumberton—Elliott Building Co., Hickory, has contract at \$30,000 for sewer extension; city will construct 500,000 g. p. d. filter plant; P. A. Roberts, Engr. 6-16

Okla., Chickasha—Woodward Construction Co., Ponca City, has contract for sewers in Dist. No. 67.

Okla., Erick—City rejected bids for sewer, soon call for new bids. 4-4

S. C., Vaucluse—George H. Leitner, John G. Chafee, interested in sanitary sewer and domestic water supply project in Horse Creek Valley; cost about \$300,000; will supply water and sewerage to Graniteville, Madison, Warrenton, Groversville, Bath, Clearwater, etc.

Tenn., Chattanooga—E. J. Kirkpatrick Construction Co., Florence, Ala., has contract at \$79,868 for vit. clay sewers in 12th Ward; Hornbuckle Contracting Co., McGlawn-Bowen Bldg., Atlanta, Ga., at \$77,182 for vit. clay sewers in 13th Ward.

Tenn., Johnson City—City voted \$25,000 sewer extension bonds. 3-7

Tenn., Knoxville—City, H. J. Wight, City Engr., working on survey and details of trunk line sewer. 5-16

Tenn., Memphis—City plans sewer and water extension to newly annexed territory; voted this year on issuing \$850,000 bonds for sewers and drains.

Tenn., Nashville—T. I. Curtiss & Son, reported, have contract for clay pipe sewer, Stokes-Marshall trunk sewer, and for sewer in Arey No. 956.

Tenn., Nashville—W. J. Broderick, 407 Monroe St., reported, has contract for storm sewers in Twelfth Ave., S.

Tex., Harlingen—City receives bids June 5 for storm sewers. See Want Section—Bids Asked.

Tex., Houston—See Roads, Streets, Paving.

Tex., Kerrville—Town plans \$45,000 sewer works.

Tex., Fort Worth—See Roads, Streets, Paving.

Tex., Houston—City, Fred Turner, Sec., soon receive bids for sanitary sewers on Schroeder St.; also construct storm sewer on Nance St.

Tex., Midland—City will let contract June 4 for sewer extension and sewage disposal plant; \$175,000 bonds available. 4-25

Va., Norfolk—See Roads, Streets, Paving.

Street Railways

Tenn., Memphis—Memphis Street Railway Co. announced 3-year program track rebuilding and street repair, including practically all of right-of-way within city limits, involving expenditure of \$1,500,000, \$750,000 in 1929; completing work on Herando and started on Main St.; move large water main, lay new tracks and pave Cleveland St.; rebuild Main, Cleveland and Hernando Sts., Popham Blvd. and Vance Ave. this year.

Tex., Dallas—Dallas Railway and Terminal Co. extend Junius Heights car line from terminus, Ridgeway to Llano St. and Greenville Rd., 14 blocks; cost approx. \$50,000.

Va., Petersburg—Roy H. Morris and associates, 434 Deming Pl., Chicago, Ill., acquired Petersburg, Hopewell & City Point Ry. Co.

Telephone Systems

Mo., St. Louis—Voice of St. Louis, Nelson P. Darragh, Pres., Mayfair Hotel, acquired 25-acre site, St. Louis County; erect 50,000-watt transmitter station for KMOX; soon begin constructing towers; George Junkin, Managing Director.

N. C., Gastonia—Southern Bell Telephone & Telegraph Co., R. B. Babington, Dist. Mgr., beginning constructing \$65,000 cable project in city; also cable line extending 4 mi. to connect with new Washington-Atlanta cable under construction.

N. C., Roswell—Rosehill Telephone Co., incorporated; J. C. Williams, Maury Ward.

Okla., Stroud—Southwestern Bell Telephone Co., A. G. Mills, Bldg. Engr., let contract to Smiser Construction Co., 2300 N. Broadway, for \$50,000 telephone building; 1-story; heating and plumbing to J. D. Mann Co., 515 W. Main St.; wiring, Gaddis-Fentress Electric Co., 635 W. Main St., all Oklahoma City.

Tenn., Nashville—Federal Radio Comm. approved transfer of station WBAW to Tennessee Publishing Co., formerly owned by Waldrum Drug Co.

Textile Mills

Ala., Gadsden—Sauquoit Spinning Co., Inc., let contract to A. K. Adams & Co.,

542 Plum St., N. W., Atlanta, Ga., for conditioning room; cost \$10,000; Robert & Co., Inc., Atlanta, Ga., prepared plans.

Ala., Union Springs—Cowikee Mills Inc., Donald Comer, Pres., 3930 N. First Ave., Birmingham, reported, let contract to Johnson Construction Co., Martin Bldg., Birmingham, for yarn mill addition; 1 story, 294x34 ft.; cost \$40,000. 5-14

Ark., Little Rock—Pauline Hosiery Mills, Inc., 1006 W. Seventh St., plans doubling capacity of hosiery mill.

Ga., Carrollton—Mandeville Mills plan complete electrification of all machinery; plans being prepared by Robert & Co., Inc., Archts. and Engrs., Atlanta; contracts will soon be let.

Ga., Rockmart—Stephenson Brick Co., 2027 Fourth Ave., N. Birmingham, Ala., has contract for 800,000 brick for \$5,000,000 mill for Goodyear Tire and Rubber Co., Dayton, O. 5-23

Ga., Sargent—Arnall Mills Co. has plans by Lockwood Greene Engineers, Inc., Engrs., Spartanburg, S. C., for addition to present mill; 1 story, 109x130 ft., conc. footings, brick walls, struc. steel columns, tar and gravel roof, steel sash and doors, sprinkler system; owner builds by day labor.

Miss., Columbia—Columbine Knitting Mills, Inc., capital \$50,000, chartered; Hugh L. White, George B. Lampton; erect hosiery mill at Church St. and Pittman Ave.; Guy Burt, Contr.; knitting machines furnished by The Hemphill Co., Pawtucket, R. I.; G. R. Burt, Confr., Columbia. 5-23

N. C., Charlotte—Darlington Textile Co., Pawtucket, R. I., reported, has plans underway for removal of plant from Pawtucket to Charlotte, and Newton, N. J.

N. C., Charlotte—Duchess, Inc., capital \$25,000, incorporated; Alfred Jepson, 714 Worthington Ave., manufacturer fancy goods specialties.

N. C., Lincolnton—Merco Mills, Inc., capital \$15,000, chartered; W. W. Glenn, Allen H. Sims, Jr.

N. C., Morganton—J. J. McDevitt Co., Builders Bldg., Charlotte, has contract for addition to Morganfield Full-Fashioned Hosiery Mill; 50x60 ft.; 3 story; cost \$10,000.

N. C., Mount Airy—Zeb. Hatcher constructing building for outside capitalists; 50x100 ft.; 1-story; manufacture boys sweaters.

S. C., Bath—Gallivan Construction Co., Greenville, reported, has contract for addition to Aiken Mills; cost \$30,000.

S. C., Clearwater—Gallivan Construction Co., Greenville, has contract for \$30,000 addition to Seminole Mills.

S. C., Clearwater—Gallivan Building Co., Gallivan Bldg., Greenville, has contract for cotton goods manufacturing plant for United Merchants and Manufacturers Co., Homer Loring, Pres., 31 Milk St., Boston, Mass.; rein, conc. and steel; brick walls; tar and gravel roofing; steel sash and doors. 4-4

S. C., Spartanburg—Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, has contract at \$175,000 for finishing and dyeing plant of Fiarforest Finishing Co.; Lockwood Greene Engineers, Inc., Spartanburg, Engr. 5-23

Tenn., Nashville—Walter Fred Hosiery Mills, Inc., let following sub-contracts for mill on Charlotte Pike: Main building, first unit, 350x105 ft.; dyehouse and boiler room, 40x150 ft.; capacity 72 machines; installing Schubert & Salzer high speed full fashioned machines; Summer Construction Co., Gen. Contr., 1202 Broad St.; Robert M. Condra in charge; sprinkler and heating systems, Rockwood Sprinkler Co., 134 S. La Salle St., Chicago, Ill.; air conditioning, Parks-Cramer Co., 2000 S. Boulevard, Charlotte, N. C.; boilers, stokers, etc., Nashville Machine & Supply Co., 123 Third Ave., N., Nashville; chimney, Alphons Custodis Chimney Construction Co., 95 Nassau St., New York; contracts for wiring, elevators, etc., not let; Robert & Co., Inc., Engrs., Atlanta, Ga.

Va., Hopewell—American Chatillon Corp., 393 Seventh Ave., New York, and Tubize Artificial Silk Co., of America, 2 Park Ave., New York, entered into contract for forming new company to erect plant for manufacture of cellulose acetate yarn; plant to be duplicate of American Chatillon's plant at Rome, Ga., and to employ their processes; output 7500 lbs. daily of 75 denier acetate process yarn; construction probably begun by July; cost of first unit \$5,000,000; Bd. of Directors of American Chatillon Corp., reported, ratified contract.

Va., Pulaski—Dobson-Miller Corp. increased capital to \$50,000; double capacity of mill; install 50 machines; manufactures children's hosiery.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Alabama City—City plans extension to water works system and reservoir north of Lookout Avenue; J. B. McCrary Co., Atlanta, Ga., Engrs. 5-2

Ala., Gadsden—City will have additions and improvements to water works plant designed by Robert & Co., Inc., Atlanta, Ga.; may construct new pumping station.

Ala., Hamilton—City votes June 21 on \$18,000 water works bonds; R. L. Brown, Mayor.

Ala., Montgomery—City let contract to Layne-Central Co., Chelsea, Memphis, Tenn., for well water system; cost \$42,800; J. W. Billingsley, Interstate Bank Bldg., New Orleans, La., Cons. Engrs.

Ala., Sylacauga—City having preliminary surveys made for water works.

Ark., Holly Grove—City receives bids about July 10 for 4 mi. c. l. water mains; Lund Engineering Co., Engrs., Home Insurance Bldg., Little Rock.

Fla., Belle Glade—Town plans voting on \$20,000 bonds for water works system.

Fla., Hollywood—City receives bids June 11 for water works; following contractors estimating; Central Station Equipment Co., 930 Seybold Bldg., Miami; O'Neill-Orr Construction Co., West Palm Beach; M. F. Hoffman Const. Co., Dania; Edmundson-Cates, Box 3346, Fort Lauderdale; H. E. Halpin, Box 230, Aiken, S. C.; The McClelland Co., 9 W. Third St., Charlotte, N. C. 5-23

Fla., Miami—Key Largo Water Co., incorporated; A. L. Hoffer, 1213 Alhambra Circle. Ga., Atco—See Land Development.

Ga., Griffin—City having surveys made by Robert & Co., Inc., Engrs., Atlanta, for filter plant, river pumping station, pipe lines, etc.; 8 miles of 18-in. 1 mi. of 16-in. c. l. pipe; approximately 3,000,000 g.p.d. filter plant, 2,000,000 gal. storage reservoir; will install complete pumping equipment, electric motor driven; will probably open bids for equipment about Sept. 1. 5-23

Ky., Providence—City, T. C. Thomson, Clk., receives bids June 20 for water purification plant. See Want Section—Bids Asked.

Md., Baltimore—Bd. of Estimates authorized, subject to approval of Mayor Broening, expenditure of \$100,000 for wall dividing coagulating and filter basins at Montebello filtration plant. 5-23

Md., Towson—Baltimore County Comms., receive bids June 10 for excavation of trenches and for laying and furnishing water mains in certain streets in Sudbrook Park, Rosedale, Fairlawn, Baltimore Highlands, Ruxton, Townson and Colgate. See Want Section—Bids Asked.

Md., Sykesville—Springfield State Hospital Dr. J. C. Clarke, Supt., will receive bids about Aug. 1 for \$60,000 water filtration plant extension; Abel Wolman, Ch. Engr., Bureau of Sanitary Engrs.; Room 301, 241 N. Charles St., Baltimore.

N. C., Niagara—Niagara Water Co. incorporated; Millard Reynolds, Laura M. Warren; own and operate Niagara Water Co.

Okla., Langston—City plans water works; cost \$17,000; C. Washington, Mayor.

Okla., Maud—City plans voting June 4 on \$75,000 water works bonds.

Okla., Skiatook—City, V. H. Cochran, Engr., plans impounding reservoir, dam, spillway and pipeline for water supply; cost \$60,000.

Okla., Erick—City, O. R. Wilhelm, Clk., receive bids about June 1 for water works and sewers; C. A. Wood, Engr., 414 Medical Arts Bldg., Oklahoma City. 4-4

Tenn., Johnson City—City voted \$125,000 water works bonds. 5-16

Tenn., Nashville—Plumbing and Heating Supply Co., 1 S. First St., has contract for pipe, fittings, lead, etc., for water department.

Tenn., Nashville—Nashville Surgical Supply Co., Fourth and Church Sts., awarded contract for furnishing water works department with equipment and apparatus for laboratory and filtration plant.

Tex., Fort Worth—Tarrant County Water Control and Improvement Dist. No. 1, W. R.

Bennett, Chmn., will have plans ready for bids about June 10 for \$6,500,000 water works improvements; Hawley & Freese, 411 Bamps Bldg., Consol. Engrs.

Tex., Itasca—City, T. J. Stamps, Sec., soon receive bids for water works improvements; former bids rejected.

Tex., Marshall—City Comsn. install 1,000,000 gal. capacity electrically driven centrifugal pump.

Tex., Newton—City receiving bids for drilling water well, 125 ft. tower and installing 50,000 gal. capacity tank.

Tex., Vernon—Pittsburgh-Des Moines Steel Co., Professional Bldg., Pittsburgh, Pa., and Dallas, has contract at \$27,000 for 500,000 gal. water tank. 5-9

W. Va., Wheeling—R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., have contract for c. i. water pipe.

Woodworking Plants

Ark., Arkansas City—J. H. Leavenworth, Greenville, Miss., acquired plant, timber and other holdings of Thane Lumber Co.; erect box plant near sawmill.

Md., Baltimore—Apex Wood Products Co., D. N. Sills, Gen. Mgr., 1400 Fleet St., acquired plant of Maryland Veneer & Basket Co., Fishhouse Rd. and Baltimore & Ohio R. R., Westport; plan installing additional machinery for manufacturing excelsior. 5-16

Miss., Hattiesburg—Hattiesburg Compress Co. acquired McCaughey Veneer Co., property; plan increasing capacity of warehouses here.

Va., Norfolk—Pulaski Veneer Corp., T. C. Coleman, Pres., Pulaski, acquired Virginia Panel Corp.

FIRE DAMAGE

Ark., Ashdown—High School; loss \$46,000.

Ark., Osceola—Beall Hotel owned by Ben H. Green; loss \$75,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., West Palm Beach—American Legion erect arena, Clematis St.; H. S. Harvey, Archt., Guaranty Bldg.; bids in.

Mo., Moberly—Ancient Free and Accepted Masons erect semi-fireproof temple; 3 stories, wood and terrazzo floors, conc. foundation, comp. roof; Victor J. DeFoe, Archt., 114 W. Tenth St., Kansas City; date of opening bids indefinite. Address Wm. Wigginton, Moberly. See Want Section—Building Material and Equipment. 4-25

N. C., Charlotte—Oasis Temple, A. A. O. N. M. S., Charles F. Sherman, member, erect \$100,000 mosque, rear present structure, E. Second St.; 1 story, 100x180 ft., stage.

Okla., Tulsa—Company headed by Robert Jackson, Pres., Southwestern Stores, Inc., 7 N. Detroit St., negotiating for site occupied by Elks Club Bldg. for \$800,000 hotel and bus terminal; contain quarters for Elks lodge. See Buildings Proposed—Hotels and Apartments.

Tex., Midland—American Legion, Sam Wasaff, Pres., plans clubhouse.

Tex., Port Arthur—Salvation Army, Ray Melott, Adj't., plans bldg.; auditorium, chapel, etc.

Bank and Office

D. C., Washington—Union Trust Co. has permit to install 3 elect. passenger elevators, 15th and H Sts., N. W.; \$30,000.

Ga., Atlanta—United Cold Storage Co., Inc., M. E. Poronto, Pres., 2101 W. Pershing Rd., Chicago, Ill.; \$3,000,000 office and storage, 11 and 17 stories, latter for tower. See Construction News—Ice.

Ga., Atlanta—Stearns Coal Co., 349 Decatur St., S. E., erect brick veneer office bldg.; 1 story, 40x40 ft., wood floors, comp. shingle

Ark., Fulton—Three buildings owned by J. J. Battle.

Ark., Melbourne—Briggs Restaurant; Oscar Thomlinson's store; Telephone Exchange and Hayden Lander's store; Bank of Melbourne; loss \$50,000.

Fla., Auburndale—Paul Smith Hotel, damaged; loss \$40,000.

La., Kentwood—E. B. Kennon's automobile building; loss \$20,000.

La., Elton—St. Pauls R. C. Church, Father Fredzner, Pastor; loss \$10,000 to \$15,000.

Md., Baltimore—Greenwald, Inc., meat packing plant, Union Stock Yards.

Mo., Kansas City—Ready-Fixed Concrete Co.'s rock crusher and pulverizing plant, 87th St. and Lydia Ave.; loss \$40,000.

Mo., Kansas City—International Arena, 1109-13 E. 15th St., leased by Nate Becker and Guy Givens; New Center Bldg., owned by Missouri Valley Investment Co.; New Center Theater, owned by Lee Vaughan; loss \$50,000.

Mo., St. Louis—Virginia Bldg., 720 Olive St., loss \$100,000; F. W. Woolworth & Co.'s building, 8th and Olive Sts., loss \$100,000.

Okla., Buffalo—Carl Bldg.; loss \$10,000.

Okla., Calvin—Thompson's Drug Store; Telephone Exchange and several other buildings; loss \$50,000.

Tex., Bryan—Frank Patronello's residence, N. Bryan St.; loss \$9000 to \$10,000.

Tex., Fort Worth—John Muller Auto Works; loss \$30,000.

Tex., Fort Worth—Plants of Gaither Oil Co. and Haylor-Ruble Co. (sack bfrs.); loss \$15,000.

Tex., Indio—Whitherspoon Grocery; W. D. Eagles' store.

Tex., Port Arthur—Portion of Gulf Refining Co.'s plant; loss \$60,000.

Va., Bristow—Joseph Rollins' store, residence, storage warehouse and oil filling station; loss \$20,000.

Va., Lynchburg—Tolley's garage and service station, 4897 Fort Ave.; McEvory's grocery.

Clinic, Dr. W. B. Russ, Pres., 216 Camden St., receives bids June 6 for 4-story and basement office bldg. and additional story to present bldg. for obstetrical hospital; bids by invitation; brick and rein. conc.; Phelps & DeWees, Archts., Gunter Bldg.; W. E. Simpson & Co., Engrs., Natl. Bk. of Commerce Bldg. 4-11

Va., Shenandoah—First National Bank erect \$40,000 bldg.; 2 stories; work start at once.

W. Va., Charleston—Appalachian Electric Power Co., opens bids June 8 for office bldg., Virginia and Truslow Sts.; Indiana limestone, fireproof, 3 stories, 165x566 ft., \$200,000 to \$300,000; Warne, Tucker, Silling & Hutchinson, Archts., Masonic Temple. 1-31

Churches

Ala., Bessemer—First Methodist Church, G. D. Woodrow, Chmn., Bldg. Comm., receives bids until June 7 for bldg. to replace burned structure; \$175,000, including about \$50,000 in salvaged materials; R. H. Hunt Co., Archt., James Bldg., Chattanooga. 3-21

Ala., Mobile—St. Francis St. Methodist Church having preliminary plans drawn for \$80,000 Sunday school; brick, 3 stories, 72x100 ft., wood and tile floors, conc. foundation. Address Hutchinson, Holmes & Hutchinson, Archts.-Engrs., Staples-Powell Bldg. See Want Section—Building Material and Equipment. 5-23

Ark., Rogers—City, J. H. Rude, Mayor, rejected bids for \$30,000 city hall; fireproof, brick and conc., cut stone trim, 2 stories and basement, conc. and pine floors, comp. built-up roof; A. O. Clark, Archt. 5-9

D. C., Washington—First Baptist Church has permit for basement story, 1008-10 Whittingham Place, N. E.; \$12,000. Address The Pastor.

D. C., Washington—St. Matthews Lutheran Church, Rev. E. H. Mensen, Pastor, 135 Tennessee Ave., N. W., erect \$50,000 Sunday school, Kentucky Ave., S. E.; field stone and brick, 2 stories; Smith & Edwards, Archts., 1707 I St., N. W.; bids May 29.

Fla., Apalachicola—St. Patricks R. C. Church has low bid from H. H. Brown, Dothan, Ala., for \$35,000 bldg.; John J. Carey, Archt., State Office Bldg., Mobile. 2-7

Fla., Lake Wales—West Side Baptist Church, Rev. J. C. Whitcomb, Pastor, plans church.

Fla., Miami—St. Johns Presbyterian Church erect \$15,000 bldg., N. W. 29th St. and Eighth Ave.; conc. and conc. block, 1-story, 45x77 ft.; plans by F. Shuflin, 675 N. W. 34th St.

Md., Frederick—Lutheran Church, J. S. Renn, Chmn., Bldg. Comm., Dill Ave., erect \$25,000 Sunday school addition, Dill Ave.; brick, 2 stories; C. E. Bowers, Archt., 213 E. Patrick St.

Md., Ruxton, Baltimore—Church of Good Shepherd, Rev. W. O. Smith, Jr., Pastor, erect \$25,000 parish house; cinder block, 2 stories; Machen & Dixon, Archts., 312 N. Charles St., Baltimore; preliminary plans.

Mo., Independence—Church of Jesus Christ (Mormon), Rev. A. O. Frisbey, General Bishop, having plans drawn by F. H. Bartlett, Denver, Colo., for \$600,000 to \$700,000 church, Temple lot; stone and rein. concrete. 4-18

Mo., Jefferson City—First Christian Church, Rev. Guthrie S. Birkhead, Pastor, 1208 Moreland Ave., erect \$32,000 Sunday school addition; stone, 2 and 3 stories; Hoener, Baum & Froese, Archts., 3603 Laclede St., St. Louis.

Mo., St. Joseph—Woodson Chapel, Christian Church, H. M. Witt, Chmn., Bldg. Comm., 1902 St. Joseph Ave., considers remodeling bldg.; \$20,000; Webb Seiman, Archt., Bartlett Trust Bldg.

Mo., St. Louis—Southampton Presbyterian Church, Rev. W. A. Murdoch, Pastor, 5347 Nottingham St., considers erecting brick superstructure.

Tex., Beaumont—Magnolia Baptist Church has plans completed for \$100,000 building. Address The Pastor.

Tex., Dallas—McKinney Ave. Baptist Church, McKinney Ave. and Routh St., North Dallas, erect \$150,000 bldg., Oak Lawn Ave. and Wycliff St., Oak Lawn; Lang & Witsell, Archts., American Exch. Bk. Bldg.

Tex., Houston—Kensington Baptist Church, Rev. Mr. Pleger, Pastor, erect bldg.; B. M. McGinty, Contr.

Tex., Waco—First Baptist Church, Dr. W. S. Allen, member, erect Sunday school; report on plans at July meeting.

City and County

Ala., Greenville—Butler County Comms., Court erect jail, site present structure.

Fla., Miami—Dade County Bd of Comms., rejected bids for exposition bldg and armory and receives new bids June 3; \$100,000; H. Hastings Mundy, Archt., 311 N. E. 18th St. 5-9

Ga., Columbus—City, G. N. Mitcham, City Engr., voted \$30,000 bonds for jail and stockade; 3 bldgs.; brick, conc. and steel, 1 and 2 stories, cell work. 2-21

Ky., Lexington—City Council may erect \$30,000 auditorium.

Md., Cumberland—City, Thos. W. Koon, Mayor, having plans drawn by R. Holt Hitchens, Perrin Bldg., for central fire station and police headquarters bldg.; \$65,000, brick, 3 stories; plans ready about June 1. 7-26

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., erect \$125,000 bath house and community center bldg., Ewing Ave. and Hickory St.; brick, 2 stories, swimming pool.

Tenn., Johnson City—City voted \$60,000 for 3 fire stations. Address City Council. 5-16

Tex., Beaumont—City, J. W. Anderson, City Mgr., votes July 8 on \$275,000 bonds, including \$175,000 for South Texas State Fair.

Tex., Fort Worth—City votes June 25 on \$500,000 bonds for central fire station and signal station; central station to cost \$175,000; O. E. Carr, City Engr.

Tex., Galveston—Galveston County Bd. of Comms., C. C. Washington, County Engr., receiving bids to remodel court of civil appeals bldg.; \$60,000; bids opened in 30 days; R. B. Rapp, Archt., Guaranty Bldg. 2-21

Tex., Littlefield—City votes June 23 on \$50,000 city hall bonds; 2 stories and basement; auditorium to seat 2000 on top floor.

Tex., San Antonio—City, C. M. Chambers, Mayor, probably select Harvey P. Smith, Natl. Bk. of Commerce Bldg., as architect for restoration of Old Spanish Governor's Palace, Mrs. Rena Maverick Green, Chmn., Advisory Board.

W. Va., Princeton—Mercer County Bd. of Comms., selected A. B. Mahood, Bluefield, as architect for \$400,000 courthouse and jail; bonds voted. 5-16

Dwellings

Ala., Birmingham—Mississippi-Warrior Service, Brown-Marx Bldg., R. A. Brown, Birmingham, member, Advisory Bd., Inland Waterways Corp., erect 12 to 15 employee dwellings, Birmingport; \$500,000.

Ark., Little Rock—Dr. O. P. Christian, 801 Battery St., erect \$10,000 residence, 1821 Maryland Ave.

Ark., Magnolia—Alvin Boyd, Dr. G. F. McLeod and Lawson Joiner each erect residence, McNeil Highway.

D. C., Washington—Fred. B. Mills, 44 Longfellow St., N. W., has permit for 2 brick dwellings, 5741-43 Fifth St., N. W.; 2 stories; \$12,000.

D. C., Washington—Walter F. Chappell, 1508 H St., N. W., erect \$48,000 residence, 2861 Woodland Drive, N. W., after plans by T. J. D. Fuller, Archt., 2317 Ashmont Pl., N. W.; brick and tile, 2 stories.

D. C., Washington—H. L. Rust Co., 1001 Fifteenth St., N. W., erect \$30,000 bungalow on roof of Wilkins Bldg., 1302 Eighteenth St., N. W.; brick, 1½ stories; Geo. N. Ray, Archt., 1233 Connecticut Ave., N. W.

D. C., Washington—Raymond Pagliochini, 2801 33rd St., S. E. erect \$18,000 residence, 4517 Argyle Terrace, after plans by Geo. T. Santmyers, Archt., 917 15th St., N. W.

D. C., Washington—L. Corrin Strong, 1621 35th St., N. W., erect residence, 2712 Thirty-second St., N. W., after plans by Waldron Faulkner, Archt.

D. C., Washington—W. Walter Vaughn, 12th & Upshur Sts., has permit for 16 brick and cinder block dwellings and garages, 924-30 Upshur St., N. W., and 4200-18 Tent St., N. E.; 2 stories; \$118,500.

D. C., Washington—Benj. K. Leon, 443 Seventh St., N. W., has permit for \$11,000 residence, 1605 Van Buren St.; brick, 2 stories.

D. C., Washington—W. D. Sterrett, 35th and Rodman Sts., erect 2 dwellings, 3315-16 Rowland Place, after plans by Parks & Baxter, Archts.; brick, tile and stucco, 2 stories; \$25,000. 5-16

D. C., Washington—Wm. T. Holloway, erect 3 brick dwellings, 418-22 Nicholson St.

N. W., after plans by Geo. T. Santmyers, Archt., 917 15th St., N. W.; 2 stories; \$24,000. 5-16

D. C., Washington—John M. King, 913 New York Ave., N. W., erect 2 frame dwellings, 3815-19 Twenty-fourth St., N. E., after plans by John A. Melby Archt.; 2 stories; \$10,000. 5-16

D. C., Washington—J. B. Moss erect \$13,000 residence, 1309 Fern St., after plans by Gilbert Rodieker, Archt., 1707 1 St., N. W.

D. C., Washington—John J. Beatty, Jr., 2727 Thirty-fourth Place, N. W., erect \$20,000 residence, 3422 Fulton St., after plans by Gordon E. MacNeil, Archt., 1119 17th St., N. W.; brick, 2 stories. 5-16

D. C., Washington—Christian Heinrich, 1410 G St., N. W., has permit for \$75,000 residence, 1306 Twentieth St., N. W.; conc., 2 stories.

D. C., Washington—Chas. D. Sager, 3024 Wisconsin Ave., N. W., has permit for 5 brick dwellings, 2411-19 Benning Rd., N. E.; 2 stories; \$25,000.

D. C., Washington—P. H. Willis, 927 15th St., N. W., has permit for 8 brick and tile dwellings, 5711-25 Fourth St., N. W.; 2 stories; \$56,000.

D. C., Washington—John N. Hughes, 924 14th St., N. W., has permit for 10 brick dwellings, 542-60 Twenty-fifth Place, N. E.; 2 stories; \$50,000.

Fla., Miami Beach—L. J. McGuinness, care Russell T. Pancoast, Archt., 1139 Lincoln Rd., erect \$25,000 residence, Pinetree Drive and 31st St.; conc. block, 2 stories, tile and wood floors, tile roof; drawing plans.

Fla., Miami Beach—Mark C. Honeywell, Fort Wayne, Ind.; Aug. Geiger, Archt., 58 S. E. Seventh St., Miami, Fla., advises plans for \$75,000 winter residence deferred until winter.

Fla., Miami Shores—Dr. W. F. Adams erect \$13,000 residence, N. E. Ninety-sixth St.

Fla., Miami Shores—Robt. L. Weed, Archt., 2620 Biscayne Blvd., Miami, drawing plans for \$10,000 dwelling, N. E. Thirty-third St.

Fla., Palm Beach—Albert Hall, Land Title Bldg., Philadelphia, Pa., erect number dwellings, N. Ocean Blvd., connection with development; plans drawn for 16 two-story dwellings; \$20,000 each; Volk & Maas, Archts., Plaza Bldg., Palm Beach.

Fla., Palm Beach—Alfred E. Schmidt have plans ready about 3 weeks for residence; Treanor & Fatio, Archts., Phipps Plaza.

Fla., Tampa—T. W. McElvy, 203 N. Fremont Ave., erect \$14,000 residence, W. Davis Blvd.

Fla., West Palm Beach—Mrs. Durant Daniels considers erecting residence.

Ga., Atlanta—Wm. E. Huger, 550 Cresthill Ave., N. E., receives bids June 7 for brick veneer residence, Valley Rd., N. E.; 2 stories and basement, conc. footings, hardwood and tile floors, slate roof, steam heat; Fringle & Smith, Archts., Norris Bldg.

Ga., Atlanta—Wm. J. Cooke, 1335 Peachtree St., N. E., erect \$15,000 residence, Brookhaven Drive; brick, 2 stories and basement, hardwood and tile floors, slate trim, steam heat, slate roof; Cyril B. Smith, Archt., Bona Allen Bldg.; bids May 24.

Ga., Atlanta—Mrs. J. B. Francis Herreshoff, 781 Myrtle St., N. E., receives bids May 30 for face brick and Briar Hill sandstone residence, Anseey Park; \$35,000, 2 stories and basement, conc. tile and hardwood floors, Buckingham Virginia slate roof; Wm. J. Chase, Archt., 140 Peachtree St., N. E.; following contractors estimating: Flagler Co., Red Rock Bldg.; W. P. Francis Co., 201 Luckie St., N. W.; Gilbert Beers, Bona Allen Bldg.; Padgett-Sutton Co., Bona Allen Bldg.; Christian & Bell; Crenshaw & Melver, Candler Bldg.; Yost Co., Inc., Candler Bldg.; T. C. Wesley, Bona Allen Bldg.; Collins, Holdbrook, Collins, Atlanta Tr. Co. Bldg. 3-14

Ga., Rome—A. F. Selman erect \$25,000 residence; brick veneer, 2 stories and basement, conc. footings, hardwood and tile floors, comp. or slate roof; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both 101 Marietta Bldg., Atlanta; drawing plans.

Ky., Lonsdale—Martin F. Heil, 930 Vine St., erect \$13,000 residence, 2365 Carlton Terrace.

Md., Baltimore—Sam'l. J. Stockhouse, Fidelity Bldg., erect residence, Putney Way near Tunbridge Rd.

Md., Baltimore—Plaza Construction Co., Munsey Bldg., erect 6 brick dwellings, 3000 block Brendon Ave.; 2 stories; \$16,000.

Md., Baltimore—E. Paul Mason, Fidelity Bldg., erect \$25,000 residence, St. Albans Way near Upnor Rd.; plans ready about

June 1, bids about June 15; estimates on stone with alterante on stucco and cinder block; 2 stories; H. G. Hall, Archt., Calvert Bldg.

Md., Frederick—R. F. Delaplane erect \$25,000 residence; brick, 2½ stories; Wilson Porter Smith, Archt., 2214 Rosslyn Ave., Baltimore.

Md., Hagerstown—T. W. Pangborn, Pres., Pangborn Corp., Crestline Ave., erect \$30,000 residence, The Terrace; brick, 2½ stories; H. T. & R. B. Kessler, Archts., Schmidt Bldg., York, Pa.

Mo., Kansas City—Wm. J. Koch, Archt., Interstate Bldg., erect \$10,000 residence, 455 W. 68th St. Terrace.

Mo., St. Louis—J. R. Medart erect \$60,000 residence and garage, Von Schrader Estate; 85x35 ft., brick, 2 stories and basement, hardwood floors, tile bath, oil burner; LaBeame & Klein, Archts., Compton Bldg., Dickie Construction Co., Contr., 317 N. 11th St.

N. C., Charlotte—Sherrill Realty Co., 25 W. Fourth St., erect \$15,000 residence, 812 Berkely Ave.; stucco, 10 rooms.

N. C., Greensboro—Lunford Richardson, Piedmont Bldg., erect \$150,000 residence.

N. C., Ramseur—Alton W. Craven has low bid from R. D. Garrison, Franklinton, for residence; English type, brick veneer, 2 stories, 8 rooms; Harry Barton, Archt., Jefferson Bldg., Greensboro.

Okla., Tulsa—C. R. Covey, Atco Bldg., erect 2 dwellings, 1319-23 S. Frisco Ave.; \$21,500.

S. C., Gaffney—T. A. Davidson, Mgr., Davidson Motor Co., plans residence, College St.

Tenn., Knoxville—E. Guthrie erect \$10,000 residence, Magnolia Ave.

Tenn., Memphis—J. F. Kimbrough, Exch. Bldg., erect stucco residence, Chickasaw Gardens, 1½ stories, 32x47 ft., oak floors, tile bath, wood shingle roof, hot water heat; H. M. Burnham, Archt., Goodwyn Inst. Bldg.

Tenn., Memphis—B. E. Berry, Fidelity Bank Bldg., erect English type brick veneer residence, Chickasaw Gardens; 1 story and basement, 40x34 ft., oak floors, 2 tile baths, comp. roof; Claude Northern, Archt., Fidelity Bk. Bldg.

Tenn., Memphis—Mrs. Hunter Phillips, care Geo. Mahan, Jr., Archt., City Bk. Bldg., erect brick veneer residence, Chickasaw Gardens; oak floors, comp. or tile roof, tile bath, garage and servants' quarters.

Tex., Dallas—Kessler Park Land Co., 1414 W. Colorado St., erect \$10,000 brick veneer residence and garage, 1109 Lausanne St.; 10 rooms.

Tex., Fort Worth—Frank H. Purvis, 1717 Frederick St., erect \$10,000 brick veneer residence, 2813 Sixth Ave.; 40x63 ft., oak floors, tile baths, wood shingle roof; A. C. Bauer, Contr., 2733 S. Calhoun St.

Tex., Port Arthur—Geo. Dryden, 2335 Lakeshore Dr., erect \$10,000 brick veneer residence, Dryden Place.

Tex., Humble—Mrs. R. E. Smith, erect residence, Barrett St. and Avenue D, to replace burned structure.

Tex., Kerrville—James Rodgers erect \$12,600 residence, brick and tile, 1 story, 7 rooms; Morris & Noonan, Archts., Bldrs. Exch. Bldg., San Antonio; plans about ready.

Tex., Pyote—E. W. Fate erect 4 dwellings; \$2500 each.

Tex., San Antonio—W. H. Carrington, 2747 E. Houston St., erect rock residence, Olmos Park; 2 stories, 10 rooms, 3 baths; Albaugh & Steinbomer, Archts., Real Est. Bldg.

Tex., San Antonio—A. A. Buchanan, 1601 W. Woodlawn St., add second story to residence; frame; Kelwood Co., Archt., Travis Bldg.

Va., Arlington (Branch Washington, D. C.)—Aurora Hills Development Co., Inc., organized, W. A. Morse, member, care Morse-Goodnow Co., Vermont Bldg., Washington, erect brick, stone and stucco Colonial and English type dwellings, section two of Aurora Hills, Arlington County; sell for \$9000 to \$15,000 each.

Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., receives bids June 7 for 1-story brick pumping plant at Treasury Bldg., 15th and Pennsylvania Ave., N. W.

Ga., Athens—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids until June 21 for remodeling

and enlarging postoffice and courthouse; drawings and specifications from Custodian at site or from office Supvg. Archt.

N. C., Asheville—Additional contractors estimating on post office and courthouse, bids June 7 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Miller Engineering Corp., 815 Fifteenth St., N. W., Washington; John M. Geary Co., 86 Patton Ave., Asheville, N. C.; Wm. MacDonald Construction Co., Syndicate Tr. Bldg., St. Louis, Mo.; Edw. S. Moore & Son, 610 N. Washington St., Kokomo, Ind.; Fayette Construction Co., 500 W. Short St., Lexington, Ky.; H. B. Nelson Construction Co., Augusta, Ga. 5-23

Tex., El Paso—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., probably soon start work on immigration and customs bldg., near Santa Fe St. bridge; \$500,000 appropriation available.

Tex., San Antonio—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$33,548 from Theriault Contracting Co., 534 E. Johnson St., Philadelphia, Pa., for misc. repairs to post office. 5-2

Tex., Taylor—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids July 5 for post office; drawings and specifications at office Supvg. Archt.

Hospitals, Sanitariums, Etc.

Ala., Anniston—City, W. F. Morton, Jr., Treas., voted \$75,000 hospital bonds; election declared illegal on account of error in publishing notice; another election later. 4-25

D. C., Washington—Additional firms estimating on \$875,000 Medical and Surgical Bldg., St. Elizabeth's Hospital, Anacostia, bids June 18 by Dept. of Interior, Jos. M. Dixon, First Asst. Sec.; David C. Butcher, Rust Bldg.; D. C. Engineering Co., 3710 14th St., N. W.; English Construction Co., Inc., 1311 H St., N. W.; John Douglas Co., Union Tr. Bldg.; Skinker & Garrett, 1416 F St., N. W., all Washington; York Ice Machine Co., 2222 Arch St., Philadelphia; Messer Bros. Iron Co., 421 S. Sixth St., St. Louis Mo.; Warner Elevator Manufacturing Co., 2613 Spring Grove Ave., Cincinnati, O.; R. H. Lowe & Co., 125 Salem Ave., S. W., Roanoke, Va. 5-23

Ga., Columbus—City, G. N. Mitcham, City Engr., voted \$150,000 hospital bonds; brick, 4 stories and basement, rein. conc. foundation, stone trim, conc. floors and stairs, tar and gravel roof; E. C. Wachendorff, Archt., McGlawn-Bowen Bldg.

La., New Orleans—Charity Hospital of Louisiana, Fred W. Matthews, Sec.-Treas., Bd. of Administration, receives bids until June 14 for piping and equipment, with or without boilers; separate bids for 2 high pressure boilers and breeching; information from Frank H. Chisholm, Engr., 622 S. Peters St.

N. C., Biltmore, Asheville—Biltmore Hospital erect \$125,000 fireproof wing to be called Battle Wing; other improvements planned; Samuel Hannaford & Sons, Archts., Dixie Terminal Bldg., Cincinnati, O.

N. C., Murphy—Cherokee County votes June 11 on \$36,000 hospital bonds; like sum to be given by Duke Foundation. Address Bd. of County Comms.

N. C., Newton—Catawba County Comms., C. R. Brady, Chmn., Conover, excavating for 50-bed children's hospital; contract not let; brick and steel, 1 story and basement, 60x120 ft., wood floors, conc. foundation, fireproof roof; Q. E. Herman, Archt., Hickory; M. E. Beatty, Engr., Newton. See Want Section—Building Material and Equipment. 4-11

W. Va., Lakin—State Bd. of Control, Jas. S. Lakin, Pres., Charleston, receives bids until June 28 for office and small hospital bldg., State Hospital for Colored Insane; fireproof, brick walls, Indiana limestone trim, 1 story and basement, 50x62 ft., rein. conc. floors, slate roof, conc. basement, vacuum steam heat; plumbing, heating and elect. work in gen. contract; T. T. Samsbury, Archt., 216 Fifth St., Parkersburg; plans from Bd. of Control. 4-25

Hotels and Apartments

Ark., Little Rock—C. B. Barker, 913 Welch St., has permit to erect \$18,000 apartment.

D. C., Washington—S. M. Brion & Son, 1218 Ninth St., N. W., erect \$30,000, 2-story, brick apartment, 1201 Euclid St., N. W.; George T. Santmyers, Archt., 917 15th St., N. W.

Fla., Miami Beach—Miami Beach Bay Shore Co. ready for bids on or before June

7 for seven 2-story, 40x40 ft., cinder block cottages on grounds King Cole Hotel, W. 48th St.; \$56,000, tile and wood floors, tile roofs; plans by Engineering Dept. of Fisher Properties, 846 Lincoln road. 3-14

Fla., Miami Beach—Fred Bowman having plans prepared by V. H. Nellenbogen, Bas- tian Bldg., for 80-room hotel, 23rd St. and Collins Ave.; 5 stories with roof bungalow and tower, 42 x 120 ft., hollow tile, orna. stone, tile and comp. roof, tile and wood floors, passenger elevator, store 21 x 100 ft., solarium on roof.

Fla., Miami Shores—Vanta Holding Co. having plans prepared by Robert L. Weed, 2620 Biscayne Blvd., Miami Beach, for alterations and addition to apartment building; \$15,000.

Ky., Louisville—Mamie Marquet, 2706 W. Main St., has permit for \$10,000 brick apart- ment, 4201 Cedar St.

La., Shreveport—D. F. Semich soon call for bids for \$20,000, 2-story garage and apartment addition to building, Marshall and 6th Sts.; E. A. George, Archt.

Miss., Jackson—Tom B. Scott, Capital Natl. Bk. Bldg., and associates started work on 12-apartment group on North St. between Boyd and Fortification Sts.; N. W. Overstreet, Archt., Miss. Fire Insurance Bldg.; \$75,000.

Mo., Kansas City—O. L. Davis, 1208 Holmes St., has permit for 3-story, 24-apartment, 1000-06 Newton Ave.

Mo., Kansas City—Claude C. Cammann considering erecting 8-story apartment, 1324-28 Central St.

Mo., Lamar—L. S. Ryan, reported, erect \$225,000, 4-story, brick, 114-room hotel; S. Everett Miller, Archt., 320 Wall St.

N. C., Charlotte—Harold L. Maeder has permit for \$10,000 apartment, 717 Royal Court.

Okla., Oklahoma City—L. O. Smith, Ralph Hemphill, State Fair Grounds, and associates erect Hi-Way Apartments, Edmond and Britton highway; \$65,000.

Okla., Tulsa—O. T. Hewlett, 713 S. Peoria Ave., erect \$13,000 apartment.

Okla., Tulsa—Company headed by Robert Jackson, Pres., Southwestern Stores, Inc., 111 E. 14th St., negotiating for site at Third St. and Boulder Ave. occupied by Elks Club Bldg., to erect \$800,000, 7-story, 200-room hotel and bus terminal; contain quarters for Elks lodge.

Tenn., Memphis—Morris Rosen and Jack Davis, 81 S. Main St., erect \$60,000, 2-story and basement, brick veneer 16-apartment; oak floors, comp. and tile roof, stone trim; W. C. Lester, Archt., Dermon Bldg.

Tenn., Memphis—N. A. Sundholm, 1543 Carr St., plans \$150,000, 6-story, 39x97 ft. apartment hotel, Poplar Blvd. and McNeil St.

Tenn., Nashville—Charles Phillips, 1400 Greenwood Ave., has permit for \$20,000, 24-room apartment, 1219 Seventh Ave., S.

Tenn., Tiptonville—A. E. Markham plans 2 or 3 story and basement, brick, 48-room hotel, Edgewater Beach on Reelfoot Lake; comp. built-up roof, stone trim, steam heat.

Tenn., Winchester—O. S. Fuller, Box 316, erect 3-story hotel to replace structure de- stroyed by fire. See Want Section—Build- ing Material and Equipment. 5-16

Tex., Big Springs—A. J. Crawford receives bids June 10 at office Peters, Strange & Bradshaw, Archts., Myrick Bldg., Lub- bok, and Big Springs, for \$280,000, 12-story, 140 x 77 ft., 120-room, brick, tile and conc. Spanish type annex to Crawford Hotel; cement tile, terrazzo, wood and linoleum floors; separate bids for plumbing, heating and ventilating, electric wiring and elevators. 4-25

Tex., Cuero—Henry Spangle soon let contract for stucco apartment building.

Tex., El Paso—Mrs. Dudley Alberts, McCay Hotel, acquired lease on Hotel Gardner; expend \$80,000 for improvements.

Tex., Fort Worth—T. W. Smith, 500 W. Second St., has permit for \$30,000, 2-story, 12-apartment, 504 W. Second St.

Tex., Hereford—Chamber of Commerce Hotel Comn., E. B. Black, Chmn., having plans prepared by Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., Fort Worth, for 5-story, fireproof, 71-room hotel on E. Third St. 4-11

Tex., Higgins—C. R. Patton plans 40-room hotel; steam heat.

Tex., Houston—Wilkeshire Apartment Co., Louis Sacks and associates, having plans prepared by Einar H. Stube, 3940 Main St., for \$800,000, 12-story and roof garden, brick and terra cotta, 150-room apartment hotel;

swimming pool in basement, mezzanine to have ball room, lounging and reading rooms.

Va., Waynesboro—T. J. Collins & Son, Staunton, prepared plans for 3-story, brick, 24-apartment on Jefferson Highway, in Blue Ridge Court subdivision; slate roof, English type.

Miscellaneous

Ark., Fort Smith—Fentress Mortuary, Oscar Fentress, having plans prepared by Haralson & Nelson, Merchants Natl. Bk. Bldg., for \$50,000, 2-story brick and cone building.

Ga., Bainbridge—Bainbridge Woman's Club, Mrs. A. B. Conger, Pres., erect \$10,000 clubhouse.

La., Jennings—Louisiana Children's Home Society, Dr. A. B. Cross, Pres., plans 1-story, fireproof building.

La., Lake Charles—Hays Pleasant Town- site Co., S. T. H. Bradley, 1041 Common St., interested in erection hotel and pavilion in connection with development in "Pleasant Beach."

La., Mandeville—Academy of Motion Picture Art, Ernest Shipman, purchased St. Tammany Hotel, and erect studio nearby with spectators' gallery seating 500.

Miss., Jackson—Wright & Ferguson, 239 Amite St., erect \$35,000, 2-story, 40x86 ft., hollow tile and stucco funeral home, West and High Sts.; chapel 25x40 ft., 12-car garage; Hull & Malvane, Archts., Merchants Bk. & Tr. Co., Bldg.; bids in. 5-16

Mo., St. Louis—J. R. Thompson Co., 350 N. Clark St., Chicago, having plans prepared by Preston J. Bradshaw, 718 Locust St., for restaurant to replace structure damaged by fire.

Tenn., Knoxville—Associated Charities Bd., Howell Davis, Pres., 309 Market St., having plans prepared by Barber & McMurray, Tennessee General Bldg., for \$25,000, 2-story, 48x64 ft. brick and cone. building, Market St. and Commerce Ave. 5-23

Tex., Henrietta—Tex Rickard Memorial Assn., C. G. McKinney, Pres., Chamber of Commerce, having plans prepared for \$150,000 memorial auditorium to seat 3000 people.

Railway Stations, Sheds, Etc.

Ga., Atlanta—Georgia Public Service Coms., approved plan of Nashville, Chattanooga & St. Louis Rwy. for \$500,000 union station; limestone and brick exterior, stone and marble or ornamental tile interior; McDonald & Co., Engrs., Southeastern Tr. Bldg. 5-2

La., Monroe—Illinois Central R. R., A. F. Blaes, Ch. Engr., Chicago, erect \$100,000, 30x150-ft. passenger station, Desiard and N. Seventh St.; umbrella shed 700 ft. long.

Tex., Fort Worth—Texas & Pacific R. R., E. F. Mitchell, Ch. Engr., Dallas, having plans prepared by Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., Fort Worth, for \$6,000,000 freight terminal; first unit, 8 stories, 100x600 ft., for incoming freight; second unit, 700 ft. long, for outgoing freight; brick and rein. conc. 5-9

Schools

Ala., Alabama City—Town votes June 25 on \$100,000 school bonds; \$80,000 for Emma Sanson High School and \$20,000 for addition to Kyle Avenue grammar school. 4-18

Ala., Union Springs—Bullock County Bd. of Education, M. K. Johnson, Supt., received bids May 31 for 4-classroom and auditorium, brick or brick veneer school.

Ark., Greenwood—School Bd., C. B. Smith, Supt., plans high school.

Ark.-Tex., Texarkana—Sacred Heart Catholic Church plans parochial school; 2 stories.

Fla., Pensacola—Special Tax School Dist. No. 10 (Brent-Goulding) voted \$30,000 bonds for building, enlarging and improving schools; Wm. Tyler, Supt. of Schools. 5-9

Ga., Athens—University of Georgia Law School, Harold Hirsch, Chmn., Hurt Bldg., Atlanta, erect \$100,000, 2-story and basement, rein. conc. and brick Law Bldg.; comp. roof, stone trim. 4-4

Ga., Athens—Georgia Beta Chapter of Sigma Alpha Epsilon Fraternity, University of Georgia, Cobb C. Torrance, Pres., Atlanta, ready for bids for \$35,000, 2-story and basement, 69x48-ft. brick veneer frat house; limestone trim, conc. tile and hardwood floors; Ivey & Crook, Archts., Candler Bldg., Atlanta.

Ga., Atlanta—Fulton County Bd. of Education, Jere Wells, Supt., receives bids June 4 for 1-story, brick veneer Mason School and

Rosser School; comp. roofs, wood floors; Cooper & Cooper, Archts., Bona Allen Bldg.

Ga., Atlanta—Kappa Alpha Fraternity, Prof. J. Sam Guy, Emory University, selected Hentz, Adler & Schutze, Candler Bldg., to prepare plans for \$35,000, 2-story and basement, brick veneer fraternity building; comp. or slate roof, tile and hardwood floors, stone trim, steam heat.

Ga., Climax—Climax Consolidated School Dist., E. L. Jordan, Chmn., having plans prepared by Lauren Parrott, Fitzgerald, for brick veneer school; comp. roof, wood floors.

Ga., Columbus—City voted \$250,000 school bonds; Robt. B. Daniel, Supt., School Bd. 2-21

Ga., Lanier—Ellabell-Eldora School Dist., T. N. Blitch, Trustee, voted \$18,000 bonds for school between Lanier and Blichton; brick, comp. roof.

Ga., Savannah—Bd. of Education, O. B. Strong, Supt., erect \$100,000, 2-story and basement, 21-classroom and auditorium, rein. conc. and brick school; comp. roof, stone trim, tile, conc. and terrazzo floors, steam heat; Levy & Clark, Archts., Blun Bldg.; bids in. 4-18

La., Arabi—St. Bernard Parish School Bd., Mrs. L. A. Meraux, Pres., receives bids June 11 for \$45,000, 2-story, rein. conc., brick and stone trim school and auditorium; 12 classrooms, auditorium to seat 750; built-up comp. roof; plans from Wm. R. Burk, Archt., Balter Bldg., New Orleans. 5-9

La., Baton Rouge—East Baton Rouge Parish School Bd., having plans prepared by Lewis A. Grosz, Reymond Bldg., for alterations and addition to 2-story brick school, Perkins road; built-up comp. roof; \$30,000.

La., Bogalusa—City voted \$100,000 for additions and improvements to schools; E. R. Cassidy, Mayor. 4-4

La., Franklinton—Franklinton School Dist. votes July 9 on \$125,000 bonds for 2-story, brick high school and alterations to grade school; Herman J. Duncan, Archt., 120 Murray St., Alexandria. 5-9

Md., Baltimore—Public Improvement Comm., Herbert J. Leimbach, Supvg. Engr., selected Lucius R. White, Jr., Court Square Bldg., as architect for addition to Public School No. 63, St. Paul and 26th Sts.; also selected W. W. Emmart, Union Tr. Bldg., to design alterations to School No. 54, 25th St. near Charles St., for administration headquarters of School Bd. 4-25

Md., Colora—West Nottingham Academy Bd. of Trustees erect \$50,000 store, Colonial type administration and dormitory building. 2-21

Md., Salisbury—Wicomico County voted \$300,000 bonds for high school at Salisbury; James H. Bennett, Supt., Bd. of Education. 5-16

Miss., Blue Mountain—Tippah County School Bd., Ripley, receives bids June 9 for brick building for Providence Consolidated School.

Miss., Holly Springs—Bd. of School Trustees receives bids June 14 for \$20,000, 1-story, 52x124 ft., rein. conc., brick, stone trim grammar school; J. M. Spain, Archt., Millsaps Bldg., Jackson. 5-23

Miss., Indiana—Indiana Ind. School Dist. votes June 7 on \$100,000 bonds for addition to school and remodeling school.

Miss., Jackson—Bd. of Education, E. L. Bailey, Supt., receives bids June 4 for alterations to Galloway and Davis Schools; Hull & Malvaney, Archts., Merchants Bk. Bldg.

Miss., Runnelstown, R. D. from Hattiesburg—Perry County Bd. of Education, New Augusta, received bids May 31 for \$20,000, 1-story, brick, 8-classroom and auditorium school. 5-2

Miss., Tupelo—Shiloh Consolidated School Dist. Trustees, Courthouse Bldg., receive bids June 6 for \$10,000 school; plans at office Lee County Supt. of Education. 5-23

Miss., Yazoo City—School Bd. expend \$17,000 for repairs and equipment of public schools.

Mo., Alton—Bd. of Education, S. Gohm, Sec., erect 1-story brick grade and high school addition; Heckenlively & Mark, Archts., Landers Bldg., Springfield.

Mo., Boone, Kansas City—Boone School Dist., 89th St. and Wornall road, plans \$25,000 brick school.

Mo., Downing—Bd. of Education has low bid at \$20,750 from Bushboom Bros. for 2-story, brick grade school addition; Ludwig Abt., Archt., 114½ William St., Moberly. 5-2

Mo., Joplin—Bd. of Education, Roy Breazeale, Sec., plans \$200,000 2 and 3 story North Jr. High School; \$80,000, 2-story Emer-

son grade school; \$45,000, 1-story gymnasium and auditorium additions to East Jr. High School and South Jr. High School; brick construction.

Mo., Kirkwood—School Dist. voted \$250,000 bonds; F. P. Tillman, Supt. 5-9

Mo., Moberly—Bd. of Education, M. F. Beach, Supt., receives bids on or about June 25 for \$300,000, 2-story, 180x280 ft., fireproof Junior College, gymnasium 60x90 ft., auditorium 70x80 ft.; \$85,000, 160x46 ft., 2-story, rein. conc. Junior High School; \$80,000, 2-story, 100x140 ft., rein. conc. West Park grade school, gymnasium and auditorium 50x60 ft.; \$40,000, 100x60 ft., rein. conc. East Park grade school; \$25,000, 50x70 ft., combination gymnasium and auditorium addition to North Park school; Ludwig Abt., Archt., 114½ N. William St. 5-23

Mo., Neosho—Neosho School Dist. voted \$140,000 bonds. 5-16

Mo., St. Joseph—Bd. of Education, A. L. Loving, Sec., Library Bldg., receives bids June 3 for 2-story, brick additions and alterations to Bartlett, Hall, Lafayette, Whittier, Benton, McKinley and Washington schools, \$350,000; also repairs to 22 brick schools Wm. B. Ittner, Archt., 911 Locust St., St. Louis.

Mo., St. Louis—Bd. of Education, H. W. McNamee, Sec.-Treas., soon ready for bids for \$200,000, 2-story, brick Columbia School; R. M. Milligan, Archt., Bd. of Education Bldg.

N. C., Greensboro—A. and T. College having plans prepared for improvements to cost \$25,000.

N. C., Raleigh—St. Augustine College erect 4 buildings to cost \$200,000.

Okla., Wilson—Wilson Consolidated School Dist. No. 2 having plans prepared by Harris H. Roberts, Harvey-Snider Bldg., Wichita Falls, Tex., for \$35,000, 10-classroom and combination auditorium and gymnasium school.

Okla., Bartlesville—Bd. of Education, Marion K. Davis, Clk., receives bids June 5 for improvements to number schools to cost \$200,000; Felt, Dunham & Kreihn, Archts., 300 W. 47th St., Kansas City, Mo. 5-16

S. C., Charleston—Bd. of School Comms., A. Burnet Rhett, Supt., receives bids June 4 for addition to high school, 147 Rutledge Ave.; plans from D. C. Barbot, Archt., 26 Broad St.

S. C., Charleston—School Dist. No. 10, St. Andrew's Parish, votes June 5 on \$74,000 bonds for construction and repair of schools; Chas. J. Ravenel, Chmn., Bd. of School Trustees.

S. C., Columbia—School Bd. purchased 3-acre site, Atlee St. between Waccamaw and Etwan Aves., for Rose Hill school.

S. C., Greenville—City voted \$700,000 bonds for high school and additions and improvements to present buildings. 5-16

S. C., Jonesville—Bd. of Education erect school building; bonds voted.

S. C., Spartanburg—Converse College remodel 2-story and basement, brick, stone trim classroom building; comp. roof; \$30,000.

Tenn., Gadsden—School Bd., C. W. Richardson, ready for bids for brick veneer high school; E. C. Raines, Archt.

Tenn., Johnson City—City voted \$300,000 school bonds. 5-2

Tenn., Memphis—Legislature authorized City of Memphis to issue \$3,650,000 bonds, subject to referendum, including \$1,350,000 for schools; election to be held this year; W. J. Prescott, Pres., Bd. of Education. 3-28

Tenn., Nashville—Davidson County Bd. of Education, W. C. Dodson, Supt., erect 8-classroom high school; accommodate 200 students; C. K. Colley & Co., Archts., Fourth & First Bldg.; bids in.

Tenn., Paris—Henry County defeated \$90,000 school bonds. 4-18

Tex., Amarillo—Catholic Church rejected bids for remodeling St. Mary's School; revise plans and call for new bids; brick and conc.; Henry T. Phelps, Archt., Hicks Bldg.; W. E. Simpson Co., Engr., Natl. Bk. of Commerce Bldg., both San Antonio. 5-9

Tex., Austin—Bd. of School Trustees, E. A. Murchison, Pres., receives bids June 10 for \$12,000, 2-story, brick and rein. conc. addition to Wooldridge School; cement and wood floors, comp. roof; H. F. Kuehne, Archt., Littlefield Bldg.

Tex., Denton—College of Industrial Arts soon let contract for dormitories.

Tex., Eastland—Eastland Free Schools Incorporated let contract to C. S. Oates & Son, 2241 S 8th St., Abilene, for 1-story, 109 x 111 brick, rein. conc. gymnasium; stone trim, cement and wood floors; David S.

Castle Co., Archt., Alexander Bldg., Abilene.

Tex., Eastland—Bd. of Education, Eastland Ind. School Dist. let contract to C. S. Oates & Son, 2241 S. 8th St., Abilene, for 2-story, 88 x 61 ft., brick, tile, rein. conc., stone junior high school; David S. Castle Co., Archt., Alexander Bldg., Abilene. 5-23

Tex., El Campo—El Campo Ind. School Dist. voted \$45,000 bonds for addition to high school; Harry D. Payne, Archt., Kirby Bldg., Houston. 5-16

Tex., El Paso—School Bd., J. Walker Morrow, Pres., erect high school. 4-18

Tex., Fluvanna—Fluvanna Consolidated School Dist. plans \$50,000 bond election.

Tex., Harlingen—Harlingen Ind. School Dist., Trustees, O. N. Joyner, Pres., has low bid at \$229,800 from W. A. Velton, Brownsville, for 2-story, 223x146 ft., brick, tile, steel, rein. conc., stone high school; wood conc., tile and terrazzo floors; DeWitt & Washburn, Archts., Kirby Bldg., Dallas. 5-16

Tex., Harrold—School Bd. having plans prepared by Voelcker & Dixon, Perkins-Snider Bldg., Wichita Falls, for 11-classroom, auditorium and gymnasium high school; \$60,000 bonds voted.

Tex., Humble—Bd. of Education, H. D. McDonald, Sec., erect 2-story, 146x185-ft., brick, hollow tile, rein. conc., stone trim Junior-Senior High School; Harry D. Payne, Archt., Kirby Bldg., Houston; bids in. 4-11

Tex., Kerrville—School Bd., John H. Ward, Pres., receives bids June 10 for 1-story, brick addition to elementary school and remodeling high school; \$60,000; Adams & Adams, Archts., Real Estate Bldg., San Antonio. 5-16

Tex., Laredo—City votes June 15 on \$225,000 school improvement bonds; Albert Martin, Mayor. 5-23

Tex., Mission—Sharyland Ind. School Dist. near Mission having plans prepared by Harvey P. Smith, Natl. Bk. of Commerce Bldg., San Antonio, for 2-classroom addition to one wing and study hall addition to another wing of high school.

Tex., San Antonio—City plans vote on \$3,000,000 school bonds; J. G. Hornberger, Pres., Bd. of Education; Phelps & Dewees, Gunter Bldg., and Adams & Adams, Real Estate Bldg., Archts. to make survey. 5-2

Tex., Seguin—Lutheran College and Trinity Lutheran College, Round Rock, consolidate and probably erect dormitory at Seguin.

Tex., Tyler—City votes June 14 on \$325,000 bonds to erect 2 junior high schools and repair and enlarge present schools. 5-16

Tex., Tynan—Tynan Ind. Schol Dist. has low bid at \$15,430 from Koerner & Strain, Corpus Christi, for 1-story, 6-classroom, tile, Spanish type school; W. C. Stephenson, Archt., Beeville. 5-9

Tex., Vidor—Vidor Consolidated School Dist. voted \$50,000 bonds for high school; 2 stories, brick, 10 classrooms and auditorium; Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont. 5-16

Tex., Waxahachie—Trinity University, Dr. John H. Burma, Pres., plans library building.

Tex., Yorktown—Yorktown Ind. School Dist., G. M. Hinsey, Sec., receives bids June 6 on for \$50,000, 1-story, 180 x 171 ft., 16-classroom, brick, conc. and tile high school; Will N. Noonan Co., Archt., Bldrs. Exchange Bldg., San Antonio. 5-2

Va., Luray—Luray Magisterial Dist. voted \$150,000 bonds for high school building; provide capacity for 1000 students. 4-25

W. Va., Beckley—Bd. of Education having plans prepared by Gary & Sheffey, Bailey Bldg., Bluefield, for graded school; first unit to consist of 8 classrooms and cost \$35,000; completed structure to have 16 classrooms and auditorium and cost \$85,000.

W. Va., Charleston—Charleston Ind. School Dist. voted \$750,000 bonds for new schools, additions to present structures, purchase of sites; S. E. Weber, Supt., Bd. of Education. 5-9

W. Va., Glenville—Bd. of Education erect 6-classroom brick and conc. high school; A. N. West, Archt.

Stores

Ark., Little Rock—A. B. Pickett has permit for \$11,000 business building, 3914 W. 13th St.

D. C., Washington—Palace Realty Co. has permit for \$100,000, 4-story brick and tile building, 741 Ninth St., N. W.

D. C., Washington—Boss & Phelps, 1417 K St., N. W. erect three 1-story brick stores, 1605-09 Foxall road, N. W.; \$15,000;

James E. Cooper, Archt., 1417 K St., N. W. 5-16

Fla., Lakeland—T. L. Hendrix, 831 College Ave., ready for bids about June 1 for \$35,000, 1-story and mezzanine, 95x117 ft., steel and tile store and service station; fireproof roof, conc. and tile floors; H. D. Mendenhall, Archt.-Engr., 311 E. Main St. See Want Section—Building Material and Equipment 5-16

Fla., Miami—Biscayne Boulevard Co., Paul R. Scott, Pres., 1317 Biscayne Blvd., reported, erect \$150,000 store, Biscayne Blvd. and 14th St., for Burdine's Inc., R. B. Burdine, Pres.; 2 stories, 40,000 ft. floor space; Weed & Virrck, Archts., 2020 Biscayne Blvd.

Ga., Atlanta—Peters Land Co., Edward C. Peters, Pres., Peters Bldg., erect \$200,000, 3-story, 80x100 ft. store, Peachtree and Cain Sts., to be occupied in part by Louis K. Liggett Co., Inc.; rein. conc., brick, stone trim, built-up roof; plans ready about June 25; Pringle & Smith, Archts., Norris Bldg.

Ga., Atlanta—J. N. Hirsch, 144 Marietta St., N. E., ready for bids for brick 3-store building, Butler and Decatur Sts.; comp. roof; R. S. Monday, Archt., Norris Bldg.

Ky., Lexington—W. B. Griggs, 563 S. Lime St., has permit for \$10,000, 2-story, brick store and apartment, Limestone and Prall Sts.

La., Crowley—Krause & Mannagan erect office and storehouse.

Md., Hamilton, Baltimore—C. Hoffberger Co., Monument & Forrest Sts., erect business and apartment building, Harford road, between Wisteria and Evergreen Aves.

Miss., Jackson—Ridgeway & McGehee, Inc., E. Capitol St., erect \$18,000, 2-story, brick and trim store, Bailey Ave. and Fortification St.; 3 store spaces and one garage; Claude H. Lindsley, Archt., Lamar Bldg.

Miss., Marks—W. A. Cox erect brick building.

Miss., Tupelo—Moore & Gregory erect 2-story and mezzanine store and office on site Gregmore Theater, recently burned; to be occupied in part by Montgomery Ward & Co., Chicago, which plans to expend \$45,000 for fixtures and shelving; 28,000 ft. floor space; 20 offices on second floor, steam heat. 3-7

N. C., Greensboro—Sol Mangel erect \$45,000 store.

N. C., Winston-Salem—West End Development Co., Wachovia Bk. Bldg., has permit for \$11,850, 2-story and basement, 42x65 ft. brick store, Hawthorne Road and First St.

Okla., Tulsa—Birbilis-Athens Investment Co. soon award contract for 2-story and basement store and office building, Third St. and Boulder Ave.; foundation for 8 additional stories; Leeland I. Shumway, Archt., Alexander Bldg.

Tenn., Memphis—Rhodes Jennings Furniture Co., H. Rhodes, 124 S. Main St., plans \$15,000, 1-story and mezzanine, brick store, McLemore Ave.

Tenn., Memphis—Dr. R. T. Nowlin, 1434 Hollywood St., plans 2-story and basement, brick store and clinic building; comp. roof, conc. and wood floors, stone trim.

Tenn., Nashville—Mrs. H. W. Timothy, 3508 Murphy Rd., has permit for \$11,000 brick store, 2910 West End Ave.

Tex., Alice—Charles Brothers erect \$20,000, 1½-story store on Main St., to be occupied by J. C. Jenney Co., Inc., 330 W. 4th St., New York.

Tex., Eagle Pass—Sam Schwartz remodel 2-story and basement, brick and conc. store; \$20,000; P. G. Wilber & Co., Archts., Bedell Bldg., San Antonio.

Tex., Houston—Bute Investment Co. erect \$75,000, 2-story commercial building, Rusk Ave. and Fannin St.; 102x124 ft., brick and rein. conc.; 8 store rooms on ground floor; James Ruskin Bailey, Archt., Public Natl. Bk. Bldg.; bids in.

Tex., Poth—E. J. Schneider erect 2-story, 60x40 ft., conc. and brick store and telephone exchange; Beverley W. Spillman & Beverley W. Spillman, Jr., Archts.-Engrs., Alamo Bk. Bldg., San Antonio.

Tex., Plainview—Cox & Thompson have permit for \$35,000 building.

Tex., San Antonio—Jorrie Furniture Co., 421 Burnet St., ready for bids for 3-story building, San Pedro and Quincy Sts.; conc. frame, masonry walls, 35,000 sq. ft. floor space; Kelwood Company, Archt., Travis Bldg.

Tex., Wichita Falls—C. E. Littlefield, 1807

Buchanan St., erect 2-story, 50x80-ft. brick store, 1510-12 Monroe St.

Va., Roanoke—United Cigar Stores, 44 W. 18th St., New York, ready for bids about June 15 for \$50,000, 2-story and basement, 50x80 ft. building, Campbell Ave. and Jefferson St.; 4 store rooms on first floor, second floor for offices, steel and frame, marble, granite and terra cotta trim, 2 marble stairways; H. M. Miller, Archt., Shenandoah Life Bldg. 2-28

Theaters

La., Shreveport—J. E. Johnston, 2761 Texas Ave., erect 1-story brick theatre, Missouri Ave. and Greenwood road; Edw. F. Neild, Archt., City Bk. Bldg.; bids in.

Tenn., Nashville—Toney and Harry Sudekum, of Crescent Amusement Co., reported, erect \$2,000,000 theatre and office building, Church St. and 6th Ave.; 150x265 ft.; theatre to seat 2500 people.

Tex., San Marcos—F. W. Zimmerman has low bid at \$31,751 from Allen & Allen for 1 and 2-story and balcony, 65x100 ft., hollow tile and stucco theater and store; excavating and footings under way by A. A. Zunker; Will N. Noonan Co., Archt., Bldrs. Exchange Bldg.; W. E. Simpson Co., Engr., Natl. Bk. of Commerce Bldg., both San Antonio. 5-16

Va., Lynchburg—Little Theater, Mrs. R. M. Woodson, Pres., plans \$12,000 theater.

Warehouses

Mo., Kansas City—E. J. Dietrich, 506 E. 71st St., has permit for \$10,000, 1-story warehouse, 2736 Mercier St.

N. C., Durham—American Tobacco Co., Charles Penn, V.-P., soon let contract for brick, fireproof warehouses on 56-acre site; half mile in length and 250 ft. in width, storage space for 30,000,000 lb. tobacco; Nello Teer has contract for excavation and grading.

Okla., Oklahoma City—Isadore Rubin remodel old Harbour-Longmire building, 300 block W. Main St., to be leased to Consolidated Retail Store, Inc., 607 St. Charles St., St. Louis.

Okla., Tulsa—Poggensee & Co., 218 N. Denver Ave., erect warehouse, Third St. and Katy R. R.

Okla., Tulsa—Nichols Transfer & Storage Co., 1 N. Boulder St., has permit for \$16,000 warehouse, 7 N. Boulder Ave.

Tenn., Memphis—O. K. Storage & Transfer Co., Jefferson Ave. and 3rd St., soon ready for bids for remodeling building; lower floor for stores; \$50,000; Estes W. Mann, Archt., Cotton Exch. Bldg.

Tex., Alice—Lynch Davidson Lumber Co. erect brick and stucco office and storage building on 100-ft. site on Main St.

Tex., Crowell—Haskell Telephone Co. erect 2-story, 25x33 ft., brick office and warehouse; Voelcker & Dixon, Archts., Perkins-Snider Bldg., Wichita Falls; bids in.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Mo., Moberly—Ancient Free and Accepted Masons, Wm. Wigginton, Member Bldg. Comm., let contract to J. M. Haley for semi-fireproof temple; \$75,000, 3 stories, wood and terrazzo floors, conc. foundation, comp. roof; Victor J. DeFoe, Archt., 114 W. Tenth St. Kansas City.

N. C., High Point—Salvation Army started work on \$30,000 bldg.; semi-fireproof, brick; R. K. Stewart & Son, Archts., 153 S. Main St.; Connor & Son, Contrs. 4-11

Okla., Oklahoma City—Labor Temple Assn., R. C. Swan, Chmn., Bldg. Comm., erect \$50,000 labor temple; brick, steel and conc., 2 stories and basement, 80x100 ft.; Wm. Neubauer, Contr., 421 W. California St.

Tex., Burton—American Legion erect clubhouse; Will H. Weeren, Archt.-Constr. Supvr.

Tex., Perryton—Ochiltree Lodge No. 910 A. F. & A. M., let contract at \$19,319 to Clem Anderson Construction Co., 1010 W. Sixth St., Amarillo, for temple; brick, 2 stories; Berry & Hatch, Archts., Oliver-Eakle Bldg., Amarillo. 1-17

Bank and Office

Ala., Mobile—Following sub-contracts let on \$750,000 addition to First National Bank bldg. on which foundation is complete: Stone, Southern Cut Stone Co., Nichol Bldg., Nashville, Tenn.; millwork, McPhillips Manufacturing Co., Lawrence St.; plumbing and heating, Leahy & Landry Plumbing Co., 75 St. Michael St.; elect. work, Cox Electrical Engineering Co., 12 St. Francis St.; Lehigh cement and malleable iron inserts and misc. supplies, McGowin-Lyons Hardware & Supply Co., Water St.; Magnolia cement, Smith-Kelly Supply Co., Inc., 265 S. Royal St.; wire mesh and expansion joint, Reliance Equipment Co., 9 N. Water St.; floor tile, Underwood Coal & Supply Co., Madison St.; sand and gravel, Mobile & Gulf Navigation Co., Palmetto St.; rein. steel, Turner Supply Co. (Agrs. for Dudley Bar Co., Birmingham), N. Commerce St., all Mobile; structure fireproof, granite base course, first 2 floors limestone, face brick above, with stone ornamentation near top, 3 elevators; Geo. B. Rogers, Archt., Van Antwerp Bldg., Mobile; bank and vault fixtures design, St. Louis Bank Building & Equipment Co., 901 Sidney St., St. Louis, Mo. 5-23

Fla., Tampa—W. D. Davis, P. O. Box 1057, let contract to B. F. Walker & Son, Franklin and Lafayette Sts., to convert Weedon Bldg. for office; \$12,000; Kellogg & Martin, Archts., Franklin & Twiggs St. See Want Section—Building Material and Equipment. 5-23

Miss., Jackson—Connors Steel Co., Birmingham, Ala., has contract for 480 tons rein. steel for 16-story bank and office bldg. for Merchants Bank & Trust Co.; Wyatt C.

Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth, Tex.; Foster & Creighton Co., Contr., Protective Life Bldg., Birmingham. 5-23

Mo., Kansas City—Grand Realty Co., Clarence H. Getchell, Pres., Bryant Bldg., in few days start razing 9-story structure on site for \$1,500,000 Professional Bldg., 11th St. and Grand Ave.; brick; stores on first 2 floors; arched entrance; Chas. A. Smith and Geo. E. McIntyre, Archts.-Engrs., Finance Bldg.; Fridstein & Co., Contrs., 111 W. Washington St., Chicago, Ill. 7-19

Tex., Fort Worth—Jesse H. Jones and John T. Jones, both Houston, let contract to H. B. Friedman, First Natl. Bk. Bldg., Fort Worth, for \$2,000,000 Fair Bldg., W. Seventh, Taylor and Throckmorton Sts.; stone and face brick, 18 stories, basement and sub-basement, 198x100 ft. for first 6 floors, 5 high-speed elevators with 4 additional operating from seventh to top floor, refrigerating system, 2 marquises; The Fair, department store, to occupy basement and 6 floors, 80,000 sq. ft. office space above; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth. 4-18

Tex., San Antonio—City Central Bank & Trust Co., Houston & Navarro Sts., let contract to Lon T. Wright & Co., Bldrs., Exch. Bldg., to remodel first 2 floors, mezzanine and basement of bldg.; new bank fixtures, elevators, vault; install partitions; Robt. B. Kelly, Archt., Milam Bldg.; W. E. Simpson & Co., Engrs., Natl. Bk. of Commerce Bldg. 5-9

Va., Alexandria—Shoemaker Bridge Co., Pottstown, Pa., reported, has contract for 110 tons struct. steel for \$200,000 office bldg. for Virginia Public Service Co.; Frank D. Chase, Inc., Archt.-Engr., 720 N. Michigan Blvd., Chicago, Ill.; Virginia Engineering Co., Inc., Contr., 322 Twenty-eighth St., Newport News, Va. 5-9

Churches

D. C., Washington—St. John's Church, Potomac and O Sts., J. F. Berrall, Chmn., Bldg. Comm., Colorado Bldg., let contract to Chas. Wohlgenuth, 1800 E St., N. W., to remodel church and erect parish house; \$30,000; brick, 2 stories; W. G. Peter, Archt., Union Tr. Bldg.

D. C., Washington—Lutheran Church of the Atonement, Rev. H. E. Snyder, Pastor, 2419 First St., N. W., let contract to W. A. Kimmel, 1420 New York Ave., N. W., for \$150,000 church and Sunday school, N. Capitol St. and Rhode Island Ave.; granite, 1 story; Richter & Eller, Archts., 147 N. Fifth St., Reading, Pa. 3-7

Fla., St. Petersburg—St. Mary's R. C. Church let contract to DuBois & Hennessey to complete \$225,000 Romanesque type bldg.; constr. to have floor level nearing completion; brick, stone trim, 2 stories, octagonal shape, tile roof, seat 1032; Henry L. Taylor, Archt., Times Bldg. 5-16

Fla., West Palm Beach—Holy Trinity P. E. Church let contract at about \$10,000 to Harrison Construction Co., Palm Beach, for parish house; rein. conc. auditorium about 35x80 ft., to seat 350; L. Phillips Clarke, Archt., Guaranty Bldg. 5-23

Tenn., Brownsville—Baptist Church let contract at \$33,000 to J. C. Moore, Brownsville, for brick bldg.; 1 story, 100x60 ft., pine floors, stone foundation, comp. roof; Dougherty & Gardner, Archts., Thos. L. Clemons, Engr., both Cotton States Bldg., Nashville; excavating. 5-16

Tex., Austin—Wesley M. E. Church, Colored, let contract at about \$36,000 to C. E. Spurlin, 202 E. Live Oak St., for bldg.; Hackberry and San Bernard Sts.; 1-story, balcony and basement, wood floors, rein. conc. foundation, asbestos shingle roof; H. F. Kuehne, Archt., Littlefield Bldg. 5-9

City and County

Ga., Decatur—City started work on municipal market, McDonough and Maple Sts.

Ga., Rochmart—Southern Manufacturing Co., Gadsden, Ala., has contract for mill-work for 392 dwellings for Goodyear Tire & Rubber Co., Akron, O.; Robert & Co., Inc., Engrs., Atlanta, Ga.; Batson-Cook Co., Contr., West Point, Ga. 5-9

Ga., Trenton—Dade County Bd. of Commrs., I. H. Wheeler, Ordinary, erect 2-story jail, site present structure; Mr. Redmon, Contr.

Mo., St. Louis—Following sub-contracts let connection with completion of \$4,000,000 Civil Courthouse: Mail chutes, Cutler Mail Chute Co., Rochester, N. Y.; millwork, Lecontour Bros., Stair Co., 3176 Brannon Ave.; plastering, Peter Anderson Plastering Co., Arcade Bldg.; marble, Union Marble & Tile Co., 1107 E. Seventh St.; terrazzo, J. Pelarain & Co., Chemical Bldg.; acoustical treatment, R. V. Acock Co., 3900 Chouteau Ave.; lumber, Philip Gruner & Bros., 4000 N. Broadway; elevators, Westinghouse Electric Elevator Co., Ambassador Bldg.; misc. iron, Lassar Manufacturing Co., Rwy. Exch. Bldg.; hollow metal work, Sears & Plou, 1001 N. Sixth St., all St. Louis; oak flooring, David E. Kennedy, Inc., 320 N. Michigan Ave., Chicago, Ill.; plans by Plaza Commission, Inc., completion contract at \$275,756 to Wm. MacDonald Construction Co., Syndicate Tr. Bldg., both St. Louis. 5-2

Va., Richmond—Department of Public Welfare let contract to Jos. Heye, 1604 Montello Ave., for 3-story addition to dormitory, City Home; probably brick and conc., 40x60 ft.; Johnston & Wright, Archts., Electric Bldg.

Dwellings

Ala., Opelika—A. C. Tatum let contract to Opelika Lumber & Construction Co. for brick veneer residence; 2 stories and basement, hardwood and tile floors, comp. roof; R. Kennon Perry, Archt., Mortgage Guar. Bldg., Atlanta, Ga. 5-23

D. C., Washington—Wardman Construction Co., Inc., 1437 K St., N. W., erect 9 brick and tile dwellings, 6201-17 Fourteenth St., N. W., after plans by M. Mesrobian, Archt., 5115 41st St., N. W.; 2 stories, \$54,000; owner builds.

D. C., Washington—W. C. & A. N. Miller erect \$16,000 dwelling, 4323 Garfield St., after plans by G. E. MacNeil, Archt., both 1119 and 17th St., N. W.; brick and stone, 2 stories; owners build. 5-9

D. C., Washington—W. C. & A. N. Miller, 1119 17th St., N. W., have permit for \$15,000 dwelling, 4916 Indian Lane, N. W.; brick, 2 stories; also erect \$15,500 dwelling, 4920 Indian Lane, and \$22,500 dwelling, 4546 Cathedral Ave.; G. E. MacNeil, Archt., both 1119 17th St., N. W.; brick and stone, 2 stories; owners build. 5-23

D. C., Washington—L. E. Breuninger & Sons, Colorado Bldg., have permit for \$16,500 dwelling, 7538 Morningside Drive; 2 stories; owners build.

Fla., Canal Point—Southern Sugar Co., F. E. Bryant, Vice-Pres., let contract to Crow Bros. and to J. B. Smith, Clewiston, for 189 employees' dwellings; 72 dwellings, Clewiston-Moore Haven Rd., 62 at Bare Beach, 20 at South Bay, 20 at Liberty Point and 15 at South Line. 5-23

Fla., Jacksonville—Mrs. W. M. Holloway erect \$10,000 duplex, 1310-12 MacDuff St.; brick veneer, 2 stories; John Hickson, Contr., 4608 Raymond St.

Fla., Miami—W. I. Weller, 1561 Brickell Ave., add second story to residence and garage; \$10,000; C. Co. Byrd, Contr.

Fla., Miami Beach—Mrs. Clarence Peters

erect \$40,000 residence, 6055 Pine Tree Dr.; Tropical Homes, Inc., Archt.-Contr., 1108 Lincoln Rd.

Fla., Miami Beach—Mrs. May Wells Bruen erect \$24,500 residence and garage, 5632 Sheridan Ave.; Fred A. Eskridge, Archt.; O. Owra, Contr., both Hollywood. 5-23

Fla., Miami Beach—Wm. A. Taradash, Pres., Sterling Co., 212 W. Monroe St., Chicago, Ill., and 1462 Washington Ave., Miami Beach, let contract for \$150,000 residence, Indian Creek, to Saint John Co., 629 N. W. Seventh St., Miami; Spanish type, garage, laundry and servants' quarters, gate lodge, fountains, 6 or more baths; Marion Sims Wyeth, Archt., Wyeth Bldg., Palm Beach. 4-18

Fla., Miami Beach—Dr. Harrison Howell has permit for \$25,000 residence, 5815 Sheridan Ave., Beach View; C. E. Haley, Archt.-Contr.

Fla., Palm Beach—Lucius P. Ordway, 114 Seaspray Ave., completed footings and foundations for \$75,000 residence, Banyan Rd.; frame and stucco, 2 stories, 76x81 ft., tile and oak floors, old Cuban tile roof; Treanor & Fatio, Archts., Phipps Arcade, Palm Beach; T. F. Dempsey & Co., Contrs., 1118 S. Olive Ave., West Palm Beach. 5-23

Fla., Palm Beach—Wiley Reynolds, 172 S. Ocean Blvd., let contract to Wilcox Construction Co., to remodel residence; swimming pool, pavilion, cloisters, etc.; \$74,000; Treanor & Fatio, Archts., Phipps Arcade. 4-18

Fla., West Palm Beach—Fredk. Johnson, 222 Peruvian St., let contract to Watt & Sinclair, Inc., Murray Bldg., for residence, Villa Bellaria; Treanor & Fatio, Archts., Phipps Plaza. 5-23

Fla., Winter Haven—A. C. Logan, Elbert Hills, started work on residence, Lake Louise.

Ga., Atlanta—H. W. Nicholes erect 2 dwellings, Brookwood Hills; brick veneer, 2 stories and basement, hardwood floors, comp. or slate roof; \$27,000; owner builds. 5-23

Ga., Atlanta—J. G. Grissim, 654 Willard St., S. W., erect \$18,000 residence, Rumson Rd., Gardens Hills; brick veneer, 2 stories and basement, comp. or slate roof; owner builds.

Ga., Atlanta—Norris Construction Co., Forsyth Bldg., erect \$12,000 dwelling, Rumson Rd., Gardens Hills; brick veneer, 1½ stories and basement, hardwood floors, comp. or slate roof; owner builds.

Ga., Atlanta—Addison Maupin, 1107 Oxford Rd., N. E., erect \$12,000 residence, 27 Camden Rd., Brookwood Hills; brick veneer, 2 stories and basement, hardwood and tile floors, comp. roof; owner builds.

Ga., Atlanta—Joe Walker, Georgia Sav. Bk. Bldg., erect \$10,000 residence, 151 Bolling Rd., Brookwood Hills; brick veneer, 1 story and basement, comp. roof; owner builds.

Ga., Atlanta—Russell T. Bailey, 2780 Alwood Rd., erect \$10,000 residence, Bolling Rd., Brookwood Hills; brick veneer, 2 stories and basement, hardwood floors, comp. roof; owner builds.

Ga., Rekmart—I. Watson & Co., Opelika, has elect. work contract for 325 dwellings fr Goodyear Tire & Rubber Co.; plumbing, Service Co., Inc., 1522 First Ave., Columbus, Ga.; rigid asbestos shingles, Johns-Manville, Inc., Madison Ave. and 41st St., New York; plaster and plaster board materials, United States Gypsum Co., 300 W. Adams St., Chicago, Ill.; Robert Co., Archts.-Engrs., Atlanta, Ga.; Batson-Cook Co., Inc., Contr., West Point, Ga. 5-9

La., New Orleans—Provident Building & Loan Assn., Whitney Bldg., erect \$13,000 single bungalow, Shirley and Socrates Sts., Burdette A. Russ, Contr., 4 Palatin Pl.

La., New Orleans—Frank Babst, 2125 Jackson St., erect double residence, Gentilly sub-division; A. A. Bourgeois, Contr., N. O. Bk. Bldg.

La., New Orleans—Martin Cortese erect single residence, Allen and Benefit Sts.; John Mineo, Contr., 436 Elmira Ave.

La., Shreveport—W. C. Woolf, Commercial Bldg., let contract to Gilman McDonnell for \$60,000 residence; brick, 2 stories; Edw. F. Neil, Archt., City Bk. Bldg. 5-23

Md., Baltimore—Dr. J. Bordley, Jr., 810 Cathedral St., let contract to G. Walter Tovell, Eutaw & Monument Sts., for \$35,000 residence, Charlotte Place; brick, 2½ stories, 76x98 ft.; Mottu & White, Archts., 527 N. Charles St. 4-11

Md., Baltimore—Dr. J. Burch Joyce, 602

W. University Pkwy., erect 2½-story brick residence and garage, 3809 St. Paul St., Guilford; 12 rooms, 3 baths; Cyril H. Hebrank, Archt., 3 E. Lexington St.; Philip S. Morgan & Co., Contr., 514 St. Paul Pl.

Md., Baltimore—Geo. W. Schoenhals, Munsey Bldg., erect 18 brick dwellings, 2401-36 Mosher St. and 7 in 900 block Wheeler Ave.; 2 stories, hot water heat; \$68,000; M. A. Taylor, Archt., 903 N. Bentaleau St.; owner builds.

Md., Baltimore—John Kirkness, 3701 Oakmont Ave., erect 20 brick dwellings, 3701-39 Oakmont Ave.; 2 stories, 18x34 ft., Carey roofs, steam heat; \$40,000; J. Geo. Wittick, Archt.; owner builds.

Md., Baltimore—Century Corp., Bldr., Awalt & Rodgers, Agts., Morris Bldg., erect 2-story frame cottage, 719 Brookwood Hunting Ridge.

Md., Baltimore—Frank B. & Robt. A. Bready Co., Bldrs., 1936 Grinnalds Ave., erect dwellings, 48-acre tract Washington Blvd. and Grinnalds Ave.; 6 rooms, brick, Carey roofs, hot water heat, American radiators, Weiskittel enamelware; constr. under way on 11 stories and 19 dwellings; ultimate plans call for 800 dwellings.

Md., Baltimore—Edwin C. Ireland, 2815 St. Paul St., erect brick residence and garage, 321 St. Dunstan's Rd.; 2½ stories, 37.4x30.2 ft. and 18.10x19.8 ft., slate roofs, vapor heat; E. A. Wolf, 3rd, Archt.; Younger & Riddle, Contrs., 4402 Carleview Rd.

Md., Baltimore—Donohue Home Building Co., Lexington Bldg., erect 38 brick dwellings, 1200 block Loney's Lane, 3100 block E. Biddle and 3100 E. Preston Sts.; 2 stories, \$76,000.

Md., Baltimore—Inter City Corp. let contract to Benj. R. Sales, 1729 Fleet St., for 4 frame dwellings, 3500-06 Southern Ave.; 2½ stories, 24x24 ft., steam heat. 5-23

Md., Baltimore—J. E. Gregory, Inc., 4311 Arizona Ave., erect 12 frame dwellings, 2805-17 Bauernwood Ave.; 2½ stories, 24x24 ft., steam heat; \$30,000; Benj. R. Sales, Contr., 1729 Fleet St.

Md., Baltimore—Otto F. Unger erect 4 frame dwellings and garages, 3808-14 Biddle Ave.; 2 stories, 18x30 ft. and 10x18 ft., furnace heat; \$10,000; Unger & Garland, Archts.-Contrs., 4104 Frankford Ave.

Md., Frederick—C. Newton Thomas, College Park, Frederick, erect \$25,000 residence, Rockwell Terrace; brick, 3 stories; Chas. Bowers, Archt., 213 E. Patrick St., Frederick; Jas. S. Posey, Heating Engr., 201 W. Franklin St., Baltimore; Lloyd C. Culler, Contr., Frederick.

Miss., Canton—David Buttress let contract at \$11,960 to Frank Hill, Canton, for residence; brick veneer, 2 stories, 30x45 ft., tile roof, built-in features, furnace heat; J. M. Spain, Archt., Millsaps Bldg., Meridian. 5-16

Mo., Springfield—T. E. Henderson, 307 N. Roberson St., erecting residence, N. Grant Ave.

Mo., St. Louis—Guss P. Listick erect 2 brick and stucco dwellings; 48x30 ft.; \$14,000; F. L. Whitaker, Contr., 4546 Kennerly St.

Mo., St. Louis—J. Treybal, 4232 Iowa St., erect \$27,000 brick residence and garage, 3921 Kingshighway, S. E.; 3 stories, 42x35 ft. and 22x28 ft., slate roofs; F. G. Avis, Archt., 1021 Big Bend Rd.; M. C. Geiner, Sr., Contr., 3622 Connecticut St.

Mo., St. Louis—W. L. Fortner erect 7 brick dwellings, 4152-70 Potomac St.; 2 stories, 24x40 ft., comp. roofs, hot air heat; \$21,000; Mr. Dirks, Archt.; both 2924 Marcus St., owner builds.

Mo., St. Louis—H. F. Miller, 730 Baden St., erect \$10,000 office and residence, 8410 N. Broadway; brick, 2 stories, 28x82 ft., asphalt roof; Schulte & Tarling, Archts., 1043 Wall St.; F. L. Flake, Contr., both 1043 Wall St.

Mo., University City, St. Louis—H. D. Everly, 7440 Teasdale St., erect \$18,000 residence, 501 West Point St.; brick, 2 stories, 57x43 ft., asbestos shingle roof, gas heat; Trueblood & Graf, Archts., Chemical Bldg.; J. M. Miller, Contr., 2619 Eads St.

Mo., University City, St. Louis—J. H. Williamson, 7059 Waterman St., erect \$15,000 residence, 7200 Greenway Ave.; brick, 2½ stories, 52.8x33 ft., tile roof, hot water heat; plans and constr. by owner.

Mo., University City, St. Louis—O. L. Merritt, St. Louis County, erect \$11,000 residence and garage, 7430 Kingsburg Blvd.; brick, 2 stories, 43.0x38.3 ft., slate roof, hot water or vapor heat; Marcel Boulleau, Archt., Ambassador Bldg.; Edw. H. Beckmeier, Contr., 3606 Gravois St.

Mo., University City, St. Louis—F. H. Albrecht, 3657 Delmar Ave., erect \$17,000 residence and garage, 7106 Kingsbury Blvd.;

2 stories, 36x59 ft., tile roof, vapor heat; Victor Architectural & Building Co., Archt. Contr., 4826 Delmar Ave.

Mo., Webster Groves, St. Louis—A. Haneklau, 1006 Suter St., erect 2 brick bungalows, 715-17 Yale St.; 1 story, 26x42 ft.; \$10,000; owner builds.

Okla., Goodwell—Panhandle A. & M. Coll. let contract for \$10,000 residence for president to C. S. Lambie & Co., Amarillo Bldg., Amarillo, Tex.

Okla., Tulsa—Jeff P. Nix Realty Co., 2536 E. 14th St., plans 50 dwellings during 1929; several under construction.

S. C., Gaffney—Joe Meetze, 916 S. Carson St., Charlotte, N. C., erect 6-room brick veneer residence, N. Limestone St.; W. T. Duncan, Contr., Gacney.

S. C., Gaffney—Garrison G. Watts started work on English type residence, S. Petty St.; brick, 6 rooms; W. T. Duncan, Contr.

Tenn., Lookout Mountain—Mark C. Morrison let contract for \$17,000 residence to Orr Barnes Co., Volunteer Bldg., Chattanooga; brick, 2 stories, 30x60 ft., oak floors, brick foundation, Eternit asbestos shingle roof; Gordon L. Smith, Archt., Volunteer Bldg.

Tenn., Memphis—G. W. Hargett, 479 McNell St., erect \$20,000 residence, Chickasaw Gardens; brick veneer, 2 stories and basement; oak floors, tile bath, tile roof, steam heat; Geo. Mahan, Jr., Archt., City Bk. Bldg.; W. T. Hudson, Contr., 63 S. Third St.

Tex., Cameron—Mr. Gaither started work on Italian type residence; Russell Brown Co., Contr., 3104 Main St., Houston.

Tex., Dallas—Alvin M. Owsley, Republic Bk. Bldg., started work on French type residence, Brookside, North Dallas; Indiana limestone; Walter Whitley, Contr., 3009 Knox St.

Tex., Fort Worth—Frank H. Purvis, 1717 Frederick St., erect \$10,000 brick veneer residence, 2813 Sixth St.

Tex., Fort Worth—A. R. Eckert, 6019 Belmont St., started work on \$12,500 residence, 3809 Montecello Drive; brick veneer, 4x38 ft., oak floors, frame shingle roof; owner builds.

Tex., Harlingen—H. H. Roddy laying foundation for \$30,000 residence, Valley Highway; Italian type; Stanley W. Bliss, Archt.; J. N. Meek, Contr.

Tex., Houston—Mrs. Catherine B. Mott started work on \$25,000 brick veneer dwelling, 3335 Del Monte Drive, River Oaks; 2 stories; 9 rooms, 2 baths.

Tex., Houston—Lawrence E. Noble started work on Colonial residence, Dunstan Rd.; 2 stories, cedar shingle walls; Russell Brown Co., Contr., 3104 Main St.

Tex., Karnes City—R. E. Tewes and John Year each erecting stucco residence; S. F. Lagow, Contr.

Tex., Kerrville—O. R. Seagraves, care Moody Seagraves Co., Esperon Bldg., Houston, erect Spanish type residence, Guadalupe River, 25 miles from Kerrville; local stone, 20 rooms, Spanish tile roof, garage, servants' quarters, caretaker's cottage; landscaping; Russell Brown Co., Contr., 3104 Main St., Houston.

Tex., McAllen—Milnor Development Co., Paul D. Miller, Pres., started work on 2 English type stucco dwellings, Milnor Addition.

Tex., McAllen—J. Loy Ramsour, Edinburg, started work on brick veneer residence, Milnor Addition; P. P. Ewing, Contr.

Tex., Taylor—Howard Bland, Jr., started work on Spanish type residence; Russell Brown Co., Contr., 3104 Main St., Houston.

Va., Richmond—A. L. Adamson & Sons, 913 Hull St., erecting number dwellings, Forest Hill Terrace.

Government and State

D. C., Washington—Mechanical Engineering & Construction Co., Mills Bldg., has contract at \$71,889 for boilers and pumps for State, War and Navy Bldg.

N. C., Goldsboro—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$15,184 to Jones Bros. & Co., Planters Bk. Bldg., Wilson, N. C., to complete east wing of post office.

Va., Hampton Roads, Norfolk—Warsaw Elevator Co., Warsaw, N. Y., has contract at \$14,400 for elevators.

Pennsylvania Ave., N. W., for \$200,000 addition; conc. and brick, 9 stories, 40x100 ft., conc., rubber tile and Duraflex floors, 1 elect. elevator, slag and conc. roof; A. P. Clark, Jr., Archt., 816 Fourteenth St., N. W.; M. S. Rich, Engr., 1410 H St., N. W., heating, Standard Engineering Co., 2129 I St., N. W.; elect. work, Biggs & Kirchner, 813 Sixth St., N. W.; plumbing, R. E. Anderson, 801 Maryland Ave., N. E.: See Want Section—Building Material and Equipment.

La., Winniboro—J. H. Hughes, Gilbert, has contract for 26-room hospital, Second St.; frame, 1 story; foundation to permit additional floors.

10-11

Hotels and Apartments

Ark., Hot Springs National Park—Kingsway Hotel Bd. of Directors, George R. Mann, V. P. and Archt. in charge, Donaghay Bldg., Little Rock, let contract at \$123,070 to Robert T. Higgins Co., 539 Ouachita St., to remodel hotel; plumbing, heating and ventilating, \$97,707, C. C. Schrader Plumbing & Heating Co., 1018 Central St.; 4 electric elevators, \$26,000, contract let; electrical work, \$21,000, W. M. Sale, 237 Columbia Ave., Shreveport, La.; plans addition later.

11-15

Ark., Little Rock—C. D. Barker, 3625 Lee Ave., erect \$15,000, 2-story brick veneer 28-room apartment, 913 Welch St.; oak floors, comp. roof; owner builds.

Ark.-Tex., Texarkana—V. A. Ghio and associated heirs let contract at \$69,788 to Hardy Brothers Construction Co. for 3-story, 150x70 ft., rein. conc., steel and brick, 64-room Ghio Hotel, Main and Front Sts.; 5 stories on first floor of Main St. side; heating and plumbing, \$13,081, Shaw Plumbing Co.; electrical, Texarkana Electric Co.; Lambert De Konig, Archt.

D. C., Washington—Wardman Construction Co., Inc., 1437 K St., N. W., erect 8-story, brick, tile and conc. 291-apartment hotel, 2500 Calvert St.; M. Mesrobian, Archt., 5115 41st St., N. W.

D. C., Washington—Gelman & Hayes, Bldrs., 317 Tenth St., N. E., started work on \$175,000, 5-story, 50-apartment, 644 Massachusetts Ave., N. E.; English Tudor style, brick and stone; George T. Santmyers, Archt., 917 Fifteenth St., N. W.

Fla., Jacksonville—A. R. Sams, 2671 Forbes St., erect \$25,000, 2-story, 77x95 ft., brick, 8-apartment, Post and Ruble Sts.; R. W. Woodall, Contr.; Bernard W. Close, Archt., Bisbee Bldg.

Fla., Jacksonville—Louis Domb, Prop., Stewart's Ready to Wear, 27 W. Forsyth St., let contract to J. P. Hardy, 2968 Myra St., for \$35,000, 2-story and basement, brick veneer apartment; Mark & Sheftall, Archts., Clark Bldg.

Fla., Miami—T. J. Piers, 2271 N. W. 57th St., let contract to C. K. Knight for \$14,000, 2-story, 40x50-ft., rein. conc., frame, cinder block apartment, Pennsylvania Ave. and 10th St.; tile and wood floors, comp. roof; H. J. Moloney, Archt., Ingraham Bldg.

Mo., Springfield—National Building Co., Waldein Bldg., Kansas City, plans 3-story and basement, 43x110 ft., brick and conc. apartment; Victor J. DeFoe, Archt., 114 W. 10th St., Kansas City.

Mo., St. Louis—A. Stein, 7003 S. Grand Ave., started work on two 48-apartments, Bingham Ave. near Grand Blvd.; Edw. E. Christopher, Archt., Louderman Bldg.; owner builds.

Mo., St. Louis—Harry C. Felter, 4615 Lindell Blvd., soon start work on \$1,250,000, 16-story, 65-apartment, 4440 Lindell Blvd.; 2-story, 66-car garage in rear; Carl Owenwald, Archt.; owner builds.

Mo., St. Louis—E. Pisani, 3504 Clark St., has permit for \$15,000, 2-story, 37x64 ft., brick tenement, 4974 Fyler St.; comp. and tar and gravel roof; L. C. Scatizzi, Archt., 1010 Chestnut St.

Mo., St. Louis—L. H. Caugh, 3461 Oak Hill St., erect \$11,000, 2-story, 25x40 ft., brick tenement, 4118 Potomac St.; asphalt shingle roof, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—H. Zeis, 3625 S. Spring St., erect \$10,000, 2-story, 24x40 ft., brick tenement, 5862 Goerner St.; asphalt shingle roof, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—J. S. Avery, 2060 Bellevue Ave., erect four 2-story, 25x44 ft., brick tenements, 5460-64 and 5461-65 Rosa St.; \$40,000, shingle roofs, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—G. H. Kehlberg, Int'l. Life Bldg., erect \$25,000, 2-story, 27x104 ft., brick tenement, 3101 Clay St.; comp. roof, hot air heat; Swan Supply Co., Bldr., 808 Chestnut

St.; B. J. Shapiro, Archt., Syndicate Tr. Bldg.

Mo., St. Louis—F. Z. Zeitinger, erect \$12,000, 2-story, 36x50 ft., brick tenement, 3847-49 Alberta St.; asphalt roof, hot air heat; E. Hartmann, Archt.-Bldr., both 3801 Bayless St.

Mo., St. Louis—E. Lala, 3675 Wilmington St., erect \$10,000, 2-story, 25x45 ft., brick tenement, 6917 Alabama St.; shingle roof; T. Winge, Archt.-Bldr., 5242 Robert St.

Mo., St. Louis—Progress Building & Investment Corp., 4582 Laclede St., has permit for \$50,000, 3-story, 34x100 ft., brick tenement, 6283-42 Southwood St.; comp. tar and gravel roof; C. E. Etz, Archt., 706 Chestnut St.; owner builds.

Mo., St. Louis—M. A. Brookel, 3612 N. 13th St., erect \$12,000, 2-story, 25x48 ft., brick tenement, 4846 Penrose St.; comp. roof, hot air heat; Richardson Building Co., Archt.-Bldr., 5209 Nottingham St.

Mo., St. Louis—P. P. Aubuchon, 5357 Northland St., erect \$10,000, 2-story, 34x48 ft., brick tenement, 5202-4 Spalding St.; pitch and gravel roof; owner, Archt.-Bldr.

Mo., St. Louis—H. Neuman, 3906 De Tonty St., erect two 2-story, 24x46 ft., brick tenements, 5560-62 Devonshire St.; \$11,000; comp. roofs; owner, Archt.-Bldr.

Mo., University City, St. Louis—B. J. Tate has permit for \$13,000, 3-story, 29x642 ft. brick apartment, 808 Kingsland Ave.; tar and gravel roof, steam heat; Guarantee Construction Co., both 700 Wainwright Bldg.

Mo., University City, St. Louis—Wearen Inv. Co. erect \$10,000, 2-story, 28x48 ft. brick flat, 7141 Tulane Ave.; tile roof, hot water heat; D. H. Wearen, Contr., both 7085 Waterman St.; F. G. Avis, Archt., 1021 Big Bend Rd.

N. C., Winston-Salem—Richardson-Wayland Electrical Co., 106 Church Ave., W., Roanoke, Va., has contract for electrical work in \$400,000, 12-story Robert E. Lee Hotel addition for Winston-Salem Hotel Co.; Angle Blackford Co., Gen. Contr., American Bldg., Greensboro; W. L. Stoddart, Archt., 59 E. 41st St., New York.

Tenn., Memphis—C. G. Lovett soon start work on \$45,000, 2-story and basement, 34x96-ft. brick veneer apartment, Morrison Ave. and Court St.; Polk W. Agee, Archt., both Fidelity Bk. Bldg.; owner builds.

Tex., Abilene—J. M. Radford let contract to Horn Construction Co. for 2-story, 50x140 ft., brick, tile and rein. conc. hotel and business building; granite base, stone trim, wood and cement floors; Nichol & Campbell, Archts., Radford Bldg.

Tex., Columbus—A. N. Evans, Gen. Contr., ready for sub-bids on steel, stone, millwork, plastering, roof and metal work, electric wiring, plumbing and heating for 3-story, 75x40 ft., conc. or clay tile, stucco and cast stone hotel for T. W. Hillman; Sanford & Nunn, Archts., 212 Scanlan Bldg., Houston.

Tex., Corpus Christi—Nueces Hotel Co. let contract to George H. Belote, Box 1088, for \$20,000 improvements to hotel; work started; Adams & Adams, Archts., Real Estate Bldg., San Antonio.

Tex., Dallas—W. L. Sessions, 3308 Rosedale St., completed foundation for \$35,000, 8-apartment, Hillcrest and Rosedale Aves., University Park; built-in features, electric refrigeration, sound proof; F. R. Perkins, Contr., 5437 Miller St.; F. J. Woerner, Archt., Central Bk. Bldg.

Tex., El Paso—C. W. Hurd, 1509 Upson Ave., has permit for \$17,500, 2-story, 8-apartment, 2860-64 Grant Ave.; Frank L. O'Brien, Contr., 3614 La Luz.

Tex., Fort Worth—T. W. Smith, 500 W. Second St., let contract to Worth Building & Investment Co., W. T. Waggoner Bldg., for \$30,000, 2-story and basement, 52x34 ft., brick and tile, 12-apartment, 504 W. Second St.; comp. roof, oak floors, electrical refrigeration; James C. Teague, Archt., Dan Waggoner Bldg.

Tex., Fort Worth—J. M. Gurley & Son, First Natl. Bk. Bldg., erect \$13,000, 1-story, 32x90 ft., rein. conc. apartment, 400 block Crawford St.; oak floors, pine trim; owner builds.

Tex., San Antonio—Donzis Investment Co., Travis Bldg., erect 2-story brick veneer and rein. conc. 20-apartment, 400 block E. Dewey St.; Malcolm G. Simons, Archt., Builders Exchange Bldg.; contractor selected; soon call for sub-bids.

Tex., Waco—Hilton Hotel Co., C. N. Hilton, Pres., Dallas, let contract to J. E. Johnson Construction Co., Cameron Bldg., for 12-story and basement, 100-room annex to Hilton Hotel; \$250,000, exclusive of furnishings; plumbing, Levy Plumbing Co., 2107

Hospitals, Sanitariums, Etc.

D. C., Washington—Central Dispensary & Emergency Hospital, 1707 New York Ave., let contract to Arthur L. Smith & Co., 2539

N. Horwood St., Dallas; electrical fixtures, Hedges Electric Co., 612 Austin Ave., Milton W. Scott, Archt., 412½ Franklin Ave. 1-31

Miscellaneous

D. C., Washington—Frederick J. Rice, Investment Bldg., erect \$100,000, 2-story, brick and tile market building, 4618 Fourteenth St., N. W.; Wardman Construction Co., Inc., Bldg., 1437 K St., N. W. 5-11

Fla., Juniper—Seminole Golf Club, Edw. F. Hutton, Pres., 61 Broadway, New York, and S. Ocean Blvd., Palm Beach, let contract to Arnold Construction Co., Murray Bldg., Palm Beach, for clubhouse, 8 mi. from Juniper; Marion Sims Wyeth, Archt., Wyeth Bldg., West Palm Beach. 4-11

Fla., St. Petersburg—Woman's Club of St. Petersburg, Mrs. Wendell Slaton, Pres., let contract to Clauson & Fellows, Power & Light Bldg., for \$25,000, 1-story, 104x96 ft., stucco and hollow tile clubhouse, Snell Island; Jonesberg & Wakeling, Archtss. 3-21

Md., Frederick—Frederick County Agricultural Society, Guy K. Motter, 114 N. Market St., let contract at \$13,135 to Ernest L. Myers for 150x60 ft. poultry building at Fair Grounds. 5-16

Mo., St. Louis—Southern Undertaking Co., 7315 S. Broadway, has permit for \$50,000, 2-story, 80x96 ft., brick funeral parlor, 6222 S. Grand Blvd.; H. Hinrichs, Jr., Bldr., 6440 Alabama St.; Kennerly & Stiegemeyer, Archtss., Title Guaranty Bldg. 5-2

N. C., Greensboro—Greensboro Bowling Alleys, Inc., C. C. Hudson, let contract to Walter Kidde Constructors, Inc., Jefferson Standard Bldg., for \$125,000, 2-story, 120-100 ft., brick building on N. Elm St. for bowling alley; Charles C. Hartman, Archt., Jefferson Standard Bldg. 5-23

Okla., Tulsa—International Petroleum Exposition let contract to Patterson Steel Co., 801 Xanthus St., for auditorium-science building; also let contract to Braden Co., 1007 E. Admiral Blvd., for porches and entrances for Texas and Oklahoma buildings. 5-18

Schools

Ark., Clarksville—School Bd. let contract at \$21,000 to W. Homer Stewart, Conway, for 1-story, brick, 6-classroom grade school on East Hill. 4-18

Ark., Little Rock—Connors Steel Co., Birmingham, Ala., has contract for 150 tons rein. steel for \$300,000, 3-story and basement M. W. Gibbs High School for which Stewart & McGehee Construction Co., Kahn Bldg., has general contract; Wittenburg & Deloney, Archtss., Home Ins. Bldg. 5-16

D. C., Washington—District Comms., Room 509 Dist. Bldg., let contract at \$203,700 to Arthur L. Smith & Co., 2525 Pennsylvania Ave., N. W., for stadium at joint site of Langley and McKinley high schools. 5-16

Ga., Bowman—Bd. of Education let contract to E. D. Griffin, Hartwell, for \$18,000 brick veneer school; comp. roof, wood floors, steam heat. 5-16

Ga., Rome—Floyd County Bd. of Education, Will T. Walters, Sec., let contract to Daniell Lumber Co., LaGrange, for \$50,000, 1-story and basement, brick grammar school; comp. roof; Lockwood & Poundstone, Archtss.; E. F. Billie, Asso. Archt., both Marietta Bldg., Atlanta. 5-16

Ky., Lexington—University of Kentucky, Dr. Frank L. McVey, Pres., let contract at \$266,290 to J. F. Hardyman Co., Maysville, for first unit of \$1,000,000 library; 4 stories and basement; heating and ventilation, \$27,506; J. J. Fitzgerald, Main & Spring Sts.; electrical wiring, \$7474, Ben Ingles, Danville; flooring, \$12,500, A. B. Hays; Warner-McCormick & Mitchell, Archtss., Bulkley Bldg., Cleveland, O. 5-16

La., New Orleans—Tile Shop, Inc., 824 Carondelet St., has contract for tile work on Valence C. Jones School under construction at Valence St. and Howard Ave.; Caldwell Bros., 816 Howard Ave., general contract at \$256,530; E. A. Christy, Supvg.-Archt. 11-29

Miss., Benton—Yazoo County Bd. of Education, H. L. Clark, Supt., Yazoo City, let contract at \$37,195 to Lindburg & Hays, Canton, for administration building for Yazoo County Agricultural High School. 5-16

Mo., Wellsville—Bd. of Education, John J. Cullum, Sec., erect \$32,000, 3-story, 57x66 ft., brick, fireproof high school addition; John Eppel Construction Co., Contr., 9th and Locust Sts., Columbia; Bonsack & Pearce, Archtss., 411 Olive St., St. Louis. 5-16

Mo., Overland, St. Louis—Ritenour Consolidated School Dist. Bd. of Education, D. D. Smith, Pres., let contract to E. A. Brun-

son Construction Co., Rwy. Exchange Bldg., for \$65,000, 2-story brick grade school; Wm. B. Ittner, Archt., 911 Locust St. 5-2

N. C., Durham—Southern Engineering Co. has contract for 505 tons struc. steel for gymnasium, botany and zoology buildings at Duke University; Horace Trumbauer, Archt., Land Title Bldg., Philadelphia, Pa.; Wm. S. Lee, Consit. Engr., 535 Fifth Ave., New York, and Charlotte; work under construction by Duke Construction Co., Charlotte. 5-16

N. C., Morehead City—Bd. of Education let contract to Jones Bros., Planters Bk. Bldg., Wilson, for \$125,000, 2-story and basement, rein. conc., brick, stone trim school; Atwood & Nash, Archtss., Chapel Hill. 5-16

Tex., Austin—Bd. of School Trustees, E. A. Murchison, Pres., let contract at \$22,639 to J. R. Blackmore, 1501 W. 9th St., for 3-story, 6-room, brick addition to Fulmore School; cement and wood floors, steam heat; H. F. Kuehne, Archt., Littlefield Bldg. 5-9

Tex., Beaumont—South Park Ind. Dist. School Bd. let contract at \$22,894 to Robert Boston for 1-story addition to South Park Trade School; Livesay & Wiedemann, Archtss., San Jacinto Life Bldg. 5-9

Tex., Bogota—School Bd. soon start work on \$12,500, 1-story, 60x120 ft. school; wood floors, asbestos shingle roof; O. L. Crigler Co., Contr., Mount Pleasant; Smith & Praeger, Archtss., Paris. See Want Section—Building Material and Equipment. 5-23

Tex., Byers—School Bd. let contract at \$22,450 to Hill & Tucker for addition to high school; Voelker & Dixon, Archtss., Perkins-Snider Bldg., Wichita Falls. 5-9

Tex., Dallas—Bd. of Education let contract at \$82,773 to L. M. Burford & Son, Melba Bldg., for Wheatley negro school in South Dallas; plumbing, Dallas Plumbing Co., Inc., 2425 McKinney St.; heating, Kinnison Brothers; electrical, Ro-Nile Electric Co., 3224 Knox St.

Tex., Del Rio—Catholic Church let contract at \$33,982 to J. E. Dickey, 216 Eleanor St., for remodeling Sacred Heart School; brick and conc.; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 5-9

Tex., Dickinson—School Bd., Mrs. Paul Lubit, Pres., let contract at \$46,000 to R. B. Breashears, Houston, for 1-story, brick, 12-classroom and auditorium school. 5-9

Tex., Donna—Bd. of Education, J. E. Weir, Sec., let contract at \$67,283 to J. E. Dickey, 216 Eleanor St., for 1-story, 69x80 ft.; 10-classroom and assembly hall elementary school and 1-story, 62x98 ft. manual arts building; brick and rein. conc., fireproof; Phelps & Dewees, Archtss., Gunter Bldg.; W. E. Simpson Co., Engr., 412 Natl. Bk. of Commerce Bldg. 5-9

Tex., Higgins—Bd. of Education erecting \$45,000 addition to school; gymnasium, auditorium and several classrooms; Sylvester Pelton, Contr., Amarillo. 5-16

Tex., Houston—Houston Ind. School Dist., H. L. Mills, Bus. Mgr., let contracts at \$16,514 and \$23,260 to J. H. Gaught, 207 Northwest St., for Post Oak and Douglass schools; Lamar Q. Cato, Bankers Mortgage Bldg., Archt. for former; Thiel & Madrey, Esperson Bldg., Archt. for latter. 5-16

Tex., Lockney—School Bd., W. D. Biggers, Supt., let contract to Sampson Construction Co., Lubbock, for \$85,000 high school; E. F. Rittenberry, Archt., Fisk Med. & Prof. Bldg., Amarillo. 3-14

Tex., Sulphur Springs—School Bd. erect \$50,000 brick Junior High School to replace burned structure; contract let. 5-16

W. Va., Martinsburg—School Bd. let contract at \$42,000 to Boone, Eason & Wood, Bluefield, for remodeling Burke Street school; 120x80 ft., brick veneer, 10 classrooms and auditorium to seat 250 people; W. R. Frampton, Consit. Archt., 414 11th St., Huntington. 5-16

W. Va., Wheeling—St. Michael's Parish, Rev. Thomas J. Larkin, let contract to J. R. Butt & Sons Co., Wheeling Bk. & Tr. Bldg., for \$120,000 St. Michael's Parochial School, National road and Siberts station; brick and Indiana limestone, fireproof, 103x167 ft., 2 stories, 9 classrooms, library, sodality room, auditorium to seat 525 people and equipped with motion picture projection booth and gymnasium with bleacher seats for 150 spectators, terrazzo and linoleum floors; Fox, Duthie & Foote, Archtss., 1227 Prospect Ave., Cleveland, Ohio. 5-16

Stores

Ala., Montgomery—S. H. Kress & Co., 114 Fifth Ave., New York, and 1910 Second St., N. Birmingham, let contract to G. A. Miller Construction Co., Inc., 312½ Twiggs St.,

Tampa, Fla., for \$230,000, 2-story and basement, rein. conc., steel, brick, stone trim, fireproof store, Dexter Ave. and Monroe St.; by own Engineering Dept. 4-18

Ark., Little Rock—McGregor & Pickett, Contrs., A. O. U. W. Bldg., have permit to remodel business building, 501 Main St.; \$15,000. 5-16

D. C., Washington—Warren F. Brenizer & Co., Inc., 101 New York Ave., N. E., has permit for two 1-story conc. buildings, S. Capital, P and Q Sts., S. W.; also metal shed; \$16,000. 5-16

Fla., Jacksonville—Louis Bucholtz, Mutual Life Bldg., has permit for remodeling old Baldwin Bldg., 17-21 W. Bay St., to be leased to Silvers, nc., department store; \$26,000, 2 stories, 58x95 ft., brick; Taylor & Gastrich, Contrs., 2057 Lackawanna St.; Mark & Sheftall, Archtss., Clark Bldg. 5-16

Fla., Jacksonville—E. C. Newsom, 118 Broad St., erect \$18,000, 1-story 100x90 ft., brick store, St. Johns Ave. and Talbot St.; Neal D. Evans, Contr., Adair Bldg.; Carlos B. Schoeppl, Archt., Florida Theatre Bldg. 5-16

Ky., Lexington—Dr. W. O. Bullock, Second, Upper Sts., let contract to W. T. Congleton Co., Inc., Third & Walton Sts., for \$75,000, 3-story and basement, brick, conc. and steel store on Main St.; Montgomery Ward & Co., Chicago, lessee; Frankel & Curtis, Archtss., Hernando Bldg. 5-16

La., Alexandria—C. M. Waters, Inc., let contract at \$62,919 to Tudor & Ratcliff for 4-story, 60x107 ft., rein. conc., brick, terra cotta trim store, Murray and 4th St.; Montgomery Ward & Co., lessee, Chicago; C. Erroll Barron, Archt., Haas Bldg. 4-4

Okla., Tulsa—James M. Gillette, Ritz Bldg., and Harry Tyrrell erecting 3-story and basement building, northeast cor. 5th St. and Boulder Ave.; 140x100 ft.; first 2 floors and basement to be used for merchandising shops and 3rd floor leased to Western Union Telegraph Co.; E. W. Saunders, Archt., Ritz Bldg.; ultimate plans call for 14-story structure. 5-16

Tenn., Memphis—L. C. Walker, 975 Forest St., erect \$50,000, 2-story and basement, 60 x119-ft. brick store and apartment, Vance Ave. and Somerville St.; comp. roof, oak floors, tile baths; C. A. Jones, Contr., Lee Bldg.; R. L. Sieg, Archt., First Natl. Bank Bldg. 5-16

Tenn., Rogersville—International Playing Card Co., erect, by day labor, 2-story and basement, 220x150 ft., rein. conc. and brick building; tar and gravel roof; D. R. Beeson, Archt., Johnson City. 5-16

Tex., Corpus Christi—Dougherty, Nichols & Young Construction Co., started excavation for \$225,000 store, Leopard and Carancahua Sts., for department store of Perkins Bros. Co.; 2 stories and basement, 150x90 ft., fireproof, front of Lender's stone or terra cotta; Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., Archt., Fort Worth. 5-16

Tex., Dallas—Chambers & Stanchi erecting brick orna. stone trim store, Elm and Race Sts.; F. J. Woerner & Co., Archtss., Central Bk. Bldg. 5-16

Tex., Dallas—England Electric Shop, Inc., J. M. England, Pres., Elm and St. Paul Sts., broke ground for 85x80 ft. store, Live Oak and Cantegrel Sts.; L. H. Lacy Co., Contr., Burt Bldg.; Flint & Broad Archtss., Melba Bldg. 5-16

Tex., Fort Worth—Jesse H. Jones and John T. Jones, both Houston, let contract for \$2,000,000 office and store bldg., W. Seventh, Taylor and Throckmorton Sts., to H. B. Friedman, First Natl. Bk. Bldg., Fort Worth; The Fair, department store, to occupy basement and 6 floors; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg. Fort Worth. 4-18

Tex., Harlingen—W. E. Johnson let contract to Blythe & Duerson for remodeling 2-story, 50x140-ft. brick and stucco store; \$12,000; W. C. Brumley, Lessee; Stanley W. Bliss, Archt. 5-16

Tex., Houston—J. Weingarten's Inc., 1502 Main St., let contract to West & Jensen, Second Natl. Bk. Bldg., for \$125,000, 1-story, 250 x 250 ft., brick community store and market, Harrisburg Blvd. and Texas Ave.; Joseph Finger, Archt., Democratic Bldg. 5-16

Tex., Houston—R. L. Autrey, 607 Franklin St., has permit for \$25,000, 2-story building, 1418-20 Rusk St.; T. B. Hubbard Construction Co., Contr., 1507 Shepherd St. 5-16

Tex., San Antonio—A. G. Trawalter, 222 W. Cavillo St., has permit for \$10,000, 60x150 ft., store, 521-33 Meerscheidt St. 5-16

Tex., San Antonio—B. Polunsky, 652 Main Ave., let contract to W. W. Brown, 1718 W. Gramery St., for 15-ft. rear addition and remodeling store and apartment; 2 stories. 5-16

60x32 ft., brick and conc.; Will N. Noonan Co., Archt., Bldrs. Exchange Bldg. 5-16

Tex., San Benito—Hays & Sons, plumbers, started work on \$15,000, 55x100 ft., brick building, 400 block E. Stenger St.; Walter F. Chambers, Contr.; Robt. L. Voegler, Archt., Edinburgh.

Theaters

Tenn., Memphis—M. Cianciola, 390 Payne St., let contract to James C. Perryman, 720 N. Willett St., for \$55,000 Rosemary Theatre, Jackson Ave. and Watkins St.; brick and steel, seat 1000 people; Richard L. Sieg, Archt., First Natl. Bk. Bldg.

Warehouses

Ky., Horse Cave—Peoples' Loose Leaf Tobacco Warehouse Co., W. S. Carver, Pres., let contract to Harry Smith, Glasgow, for 160x234 ft., brick warehouse; purchased house formerly owned by Dark Tobacco Growers Cooperative Assn., Smith Grove, razed, move to Horse Cave, and rebuild; 2 buildings to have 80,000 ft. floor space; \$60,000.

N. C., Durham—Liggett & Myers Tobacco Co. let contract to William Muirhead Construction Co., First Natl. Tr. Bldg., for four 2-story, 475x100 ft. brick and sheet metal storage warehouses; \$350,000; each to have sprinkler system, 5 elevators; Virginia Bridge

& Iron Co., Roanoke, Va., has contract for 1200 tons struc. steel. 4-18

N. C., Swannanoa—Beacon Manufacturing Co., New Bedford, Mass., excavating for \$75,000, 3-story, 100x140-ft. rein. conc. and brick storage building; pitch and slag roof, rein. conc. floors; Knight C. Richmond, Archt., Providence, R. I.; George B. Barker, Engr., Swannanoa; owner builds.

N. C., Williamson—Martin County Warehouse Co. erect Planters Warehouse; Jones Brothers & Co., Contrs., Planters Bk. Bldg., Williamson.

S. C. Greenville—Manufacturers Warehouse Co., 410 River St., erect \$20,000 warehouse; M. W. Campbell, Contr., Paris Mt. Rd.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Air Compressor.—Conner-Craven Equipment Co., 521-23-25 Broad St., Chattanooga, Tenn.—Wants prices and data on modern air compressor, 1000 cu. ft. capacity, direct motor driven or arranged for short belt drive.

Arc Welding Outfit.—W. M. Smith Co. (Mechy. Dealer), Birmingham, Ala.—Wants prices and data on arc welding outfit, Lincoln preferred, used.

Clam Shell Bucket.—W. F. Congleton Co., Box 598, Lexington, Ky.—Wants prices and data on 1-line clam shell bucket.

Concrete Vase Manufacturing Machinery.—U. W. Froe, Thurmond, W. Va.—Wants prices and data on machinery for making large concrete ornamental vases for lawns; new and used.

Crushing Outfit (Portable).—W. R. Ellerson, Hayesville, N. C.—Wants prices and data on portable crushing outfit, with gasoline engine on same frame, skids or wheels, size, about No. 3, Champion.

Juice Extracting Machinery.—Florida Orange Juice Co., P. O. Box 57, Hollywood, Fla.—Wants prices and data on light machinery for rapid squeezing of juice from oranges, grapefruit or other citrus fruits.

Locomotive.—Montreal Machinery Sales Co., 276 St. James St., Montreal, Canada—Wants prices and data on 20 to 30-ton, saddle tank locomotive, 42-in. gauge, used, first-class condition.

Machine Shop Equipment.—H. L. & H. Co. (Pumps for Sanded Wells), G. A. Humason, Pres. and Gen. Mgr., 3019 Hamilton St., Houston, Tex.—Wants prices and data on tool equipment for large machine shop.

Wood Pulp Manufacturing Machinery.—J. D. Peacock, Lock Box 1273, 1412 Monroe Ave., Memphis, Tenn.—Wants prices and data on complete outfit for manufacturing wood pulp; to handle 25,000 to 50,000 cords of hardwood, willow and cottonwood timber annually.

H. L. & H. Co., G. A. Humason, Pres. and Gen. Mgr., 3019 Hamilton St., Houston, Tex.—Wants quotations from manufacturers of roller bits and similar articles in quantities.

Globe Equipment Co., 1009 Myrtle Ave., Jacksonville, Fla.—Wants prices and data on following used, good condition:

(1) **Crane (Crawler)**—one 15 and one 20-ton, gasoline, with 50-ft. boom, equipped with generator and 42 or 45-in. magnet.

(2) **Engine (Diesel)**—Fairbanks-Morse, type "Y" V. A., 180-h.p., full Diesel, complete

(3) **Engine (Marine)**—Fairbanks-Morse, type "CO," 200-h.p., complete.

Consolidated Products Co., Inc., 14-16 Park Row, New York City—Wants prices and data on following:

(1) **Filter Presses and Filters**—Sweetland, Oliver or Shriver

(2) **Mixers**—Werner & Pfleiderer, and other heavy duty, large size, used.

Noone & Doubleday, E. R. Hendrix, Supt., Box 241, Canton, Ga.—Want prices and data on following, used, perfect order:

(1) **Cutters (Power)**—as small power hacksaw

(2) **Pipe Machine (Power)**—small portable, take up to 6 in.

Miscellaneous.

Tanks (Welded).—R. A. Zoeller, 504 N. Calvert St., Baltimore, Md.—Wants prices and data on one 17-ft. diam., 25 ft. long; two, 17-ft. diam., 23 ft. long; one, 17-ft. diam., 16-ft. long tanks, with dome and pipe connections.

Tung Oil and Dauri Resin.—Dept. of Correction, Sing Sing Prison, Henry Reckersdres, Deputy Supt. of Industries, Ossining, N. Y.—Wants prices and data on tung oil and kauri resin.

Kris Sauce Co., has been organized at Lillington, N. C., to manufacture and sell sauce, etc.—Wants prices, data and samples on following:

(1) **Bottles**—5, 6, 10 and 12-oz.

(2) **Bottle Labels.**

Building Material and Equipment

Miller Engineering Corp., 815 Fifteenth St., N. W., Washington, D. C., estimating on post office and courthouse, Asheville, N. C., wants bids until June 6 on all lines.

M. R. Marsh, Archt., 509 Builders Bldg., Charlotte, N. C., wants prices on following for school at Concord, N. C.:

Cast Stone

Flooring—hardwood, tile

Plaster Board

Roofing—asbestos shingle.

Roberts & Smith, Archts., 503 Reynolds Bldg., Fort Worth, Tex., want prices on following for \$15,000 mortuary and apartment building, Paducah, Tex.:

Cast Stone

Flooring—hardwood

Incinerator

Limestone

Plaster Board

Roofing—built-up

Tile—hollow

Arthur L. Smith & Co., Contrs., 2539 Pennsylvania Ave., N. W., Washington, D. C., wants prices on following for \$200,000 hospital:

Dumb Waiters

Elevators

Flooring—tile composition

Limestone

Marble

Metal Doors

Roofing—tile

Tile—gypsum, hollow

Terra Cotta Trim

Ventilators

Wire Glass.

C. R. Brady, Chmn., Catawba County Comms., Conover, N. C., wants prices on following for 50-bed hospital, Newton, N. C.:

Dumb Waiter (1)

Electric Refrigerator (1)

Flooring—hardwood, linoleum, tile

Sprinklers.

O. S. Fuller, Box 316, Winchester, Tenn., wants prices on following for hotel:

Brick

Flooring—hardwood, linoleum, Tex-Tile

Furniture

Roofing—asbestos and asphalt shingle, built-up

H. D. Mendenhall, Archt.-Engr., 311 E. Main St., Lakeland, Fla., wants prices on following for \$35,000 store and service station:

Flooring—linoleum, tile, composition

Metal Doors

Plaster Board

Roofing—asbestos shingle (corrugated), built-up

Sprinklers

Tile—gypsum, hollow, interior

Terra Cotta Trim

Ventilators

Wire Glass

Victor J. DeFoe, Archt., 114 W. Tenth St., Kansas City, Mo., wants prices on following for \$60,000 Masonic Temple, Moberly, Mo.:

Cast Stone

Flooring—hardwood, terrazzo

Roofing—built-up

Tile—hollow

W. D. Davis, P. O. Box 1057, Tampa, Fla., wants prices on following for office bldg. remodeling, \$12,000:

Plaster Board

Steel Sash and Trim

Tile

Ventilators

WireGlass.

H. T. Shipen, Osceola, Ark., wants prices on following for residence:

Electric Refrigerator

Flooring—linoleum.

Hutchisson, Holmes & Hutchisson, Archts., Staples-Powell Bldg., Mobile, Ala., want prices on following for \$80,000 Sunday school:

Cast Stone

Flooring—hardwood, linoleum, tile, composition.

Limestone

Marble

Metal Doors

Plaster Board

Roofing—asbestos shingle, built-up

Steel Sash and Trim

Tile—gypsum

Ventilators

Wire Glass.

Brass and Bronze Work.

O. L. Crigler Co., Contr., Mount Pleasant, Tex., wants prices on following for \$12,500 school at Bogota, Tex.:

Metal Ceilings

Roofing—asbestos shingle.

Bids Asked

Air Compressor.—Ch. of Engineers, Washington, D. C.—Bids June 6 for air compressor outfit complete, gasoline driven.

Blank Books.—Office of Public Printer, Government Printing Office, Washington, D. C.—Bids June 10 for blank books, etc. for fiscal year 1930.

Breakwater.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids

Miscellaneous.—Panama Canal, Gen. Pur. Officer, Washington, D. C.—Bids June 7 for following, Sch. 2488: carbon spring steel, brass tubing, pipe clamps, screw spikes, dry cells, carburetors, fuses, keyless sockets, fire hose, gas hose, leather belting etc.

June 17 for conc. breakwater at U. S. marine hospital, Norfolk, Va.

Bridge.—Dallas, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Aberdeen, Miss. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Winona, Miss. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Mobile, Ala. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—Cumberland, Md. Bids for 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—State of Louisiana. Bids for 4 bridges. See Construction News—Roads, Streets, Paving.

Bridge, etc.—Amarillo, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge Superstructures.—Spartanburg, S. C. Bids for 2 superstructures. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—State of Virginia. Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

Caustic Lime.—Bd. of Awards, Office of City Register, City Hall, Baltimore, Md.—Bids June 5 for furnishing and delivering 2000 tons caustic lime to Bureau of Water Supply.

Cement.—U. S. Engr. Office, Memphis, Tenn.—Bids June 3 for 700,000 sacks American portland cement.

Chain.—U. S. Engr. Office, Huntington, W. Va.—Bids June 5 for chain for derricks and cranes.

Diesel Oil.—Panama Canal, Gen. Pur. Officer, Washington, D. C.—Bids June 11 for Diesel oil, Sch. 1965.

Dredging.—U. S. Engr. Office, Mobile, Ala.—Bids June 20 for maintenance dredging involving removal approx. 2,500,000 cu. yd. from Gulfport Ship Channel and Anchorage Basin, Miss.

Gasoline and Kerosene.—Panama Canal, Gen. Pur. Officer, Washington, D. C.—Bids June 10 for bulk motor-grade gasoline and kerosene, Sch. 1966.

Generator Set.—Purchase Section, Bureau of Standards, Washington, D. C.—Bids June 20 for 750 kw. bleeder type turbo generator set.

Heating Boilers.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids June 11 for cast iron heating boilers in U. S. post office, court house and custom house, New Bern, N. C.

Machine Shop Equipment.—Chemical War-

fare Service, Edgewood Arsenal, Md.—Bids June 3 for 8 lathes, 2 milling machines, 20-in. motor driven shaper, motor driven surface grinder, 2 power hack saw machines, 10 double seamers, portable power shear, etc.

Paving.—Miami, Fla. See Construction News—Roads, Streets, Paving.

Paving.—Heavener, Okla. See Construction News—Roads, Streets, Paving.

Paving.—Huntington, W. Va. See Construction News—Roads, Streets, Paving.

Paving, etc.—St. Louis, Mo. See Construction News—Roads, Streets, Paving.

Photo-Copying Machine, etc.—Marine Corps Q. M. Dept., Washington, D. C.—Bids June 4 for furnishing photo-copying machine and photo-dryer, delivery Quantico, Va.

Paper.—Pur. Agt., P. O. Dept., Washington, D. C.—Bids June 15 for bond, book, mimeograph, manifold, manila, newsprint, and kraft wrapping papers, tags etc., as required during fiscal year 1930.

Printing Press and Paper Cutter.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids June 3 for furnishing automatic cylinder printing press, and power paper cutter, delivery Quantico, Va.

Road.—St. Joseph, La. See Construction News—Roads, Streets, Paving.

Road.—Clayton, Mo. See Construction News—Roads, Streets, Paving.

Road.—Palestine, Tex. See Construction News—Roads, Streets, Paving.

Roads.—Mobile, Ala. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—Towson, Md. Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Roads.—Greensboro, N. C. Bids for 14 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Louisiana. Bids for 9 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia. Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Louisiana. Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Sewers.—City of Harlingen, Tex., Sam

Botts, Mayor—Bids June 5 for furnishing materials, labor and equipment for constructing storm sewers.

Sewers.—City of Salisbury, Md., E. J. C. Parsons, Clk.—Bids June 3 for construction of storm drains and appurtenances, Contracts No. 155-SW; work includes 500 ft. of 15-in., 575 ft. of 12-in., 1510 ft. of 20-in. t. e. storm water drains; 16 storm water inlets; Francis H. Dryden, ity Engr.

Shirting.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids June 11 for furnishing 40,000 yds. khaki flannel, shirting, delivery Philadelphia, Pa.

Steel.—U. S. Engr. Office, Huntington, W. Va.—Bids June 3 for soft steel, round, open hearth process, 16 ft. lengths.

Street.—Cumberland, Md. See Construction News—Roads, Streets, Paving.

Street.—Marks, Miss. See Construction News—Roads, Streets, Paving.

Street.—Waco, Tex. See Construction News—Roads, Streets, Paving.

Street.—Williamston, N. C. See Construction News—Roads, Streets, Paving.

Streets.—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

Streets.—Richmond, Va. See Construction News—Roads, Streets, Paving.

Tires and Tubes.—General Supply Committee, Washington, D. C.—Bids June 3 for tires and tubes as required during July 1 to Sept. 30, 1929.

Water Mains.—Baltimore County Commrs., Towson, Md.—Bids June 10 for excavation of trenches and for laying and furnishing water mains in certain streets in Sudbrook Park, Rosedale, Fairlawn, Baltimore Highlands, Ruxton, Towson and Colgate; work includes 4000 cu. yds excavation; 9900 ft., 6-in., 2350 ft. of 8-in., 450 ft. of 10-in., and 2400 ft. of 12-in. water mains, furnishing and laying specifications and drawings at office of B. L. Crozier, Ch. Engr., Baltimore County Metropolitan Dist.

Water Piping, etc.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids June 11 for installing brass water piping, etc., in U. S. postoffice and court house, Columbia, S. C.

Water Purification Plant.—City of Providence, Ky., T. C. Thomson, Clk.—Bids June 20 for furnishing materials and labor for water purification plant; Wynkoop Kiersted, Engr., 614 Interstate Bldg., Kansas City, Mo.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Welding in Aeronautics.

In an article on "Development of Welded Aircraft Construction," reprinted by the Oxfeld Acetylene Company, New York, S. C. Clark, an engineer of the Linde Air Products Company, Kansas City, Mo., and W. I. Gaston of the Oxfeld Acetylene Company point out that steel tubing is coming into common use for fuselage construction. In the consequent trend toward general use of welding, it is considered "desirable to establish standard designs for welded joints and to this end further research is needed."

Florida Power & Light.

Electric power and light service is furnished in 144 communities in Florida by the Florida Power & Light Company, Miami, according to the annual report of Joe H. Gill, president and general manager, the aggregate population being estimated at 445,000 and the consumers numbering 109,897. The kilowatt-hours ran to 199,322,000 and the gas

sendout was 637,188 thousand cubic feet. Gross earnings from operation were \$11,228,792, net being \$5,017,851; total income was \$6,758,441 and the ultimate balance was \$1,033,685. Of the gross earnings, electric power and light showed 78 per cent, manufactured gas, 9 per cent; ice and miscellaneous, 13 per cent.

Airmail Map for Business.

Rates and schedules for airmail on the North and South American routes are given in a new type of airmail map being distributed to chambers of commerce and others interested by Pitcairn Aviation, Inc., Philadelphia, Pa. The service between Miami and Peru and the west coast of South America connects with the routes operated through the eastern part of the United States by Pitcairn. The route from Miami south takes in Belize, British Honduras; Tela, Honduras; Managua, Nicaragua; Esmeraldas and Guayaquil, Ecuador, and Talara, Truxillo, Lima and Mollendo, Peru.

Steel Contracts on Four Projects Call for 2650 Tons.

Contracts listed recently by the Virginia Bridge & Iron Co., Roanoke, include orders for steel on four Southern construction projects calling for a total of 2650 tons. The El Paso (Tex.) Electric Co., which recently authorized the Stone & Webster Engineering Corp., Boston, Mass., to design and construct a 40,000-kilowatt station on the Rio Grande River, has contracted for 225 tons of steel, while the L. H. Lacy Co., Dallas, Tex., general contractor for the \$350,000 Lamar street viaduct in that city, has awarded contract for 325 tons. The Liggett & Myers Tobacco Co., building four warehouses at Durham, N. C., has contracted for 1200 tons and the McDougald Construction Co., Atlanta, general contractor for the \$225,000 Mitchell street viaduct in that city, has awarded contract for 900 tons.

Reprint on Single-Phase System.

Reprints of an article, "A History of the Development of the Single-Phase System," for electric railway operation, have been published by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., giving an account of the development of the single-phase system up to its present day use. Important features of several of the outstanding single-phase systems of the world today are also described.

Kansas City Southern.

Especial interest is lent to the report of the Kansas City Southern Railway Company for 1928 by the fact that it analyzes the decrease in operating revenues and also in operating expenses as compared with the previous year, the operating revenue for 1928 having been \$21,423,896.53, a decrease of \$624,000, and the operating expenses \$11,089,021.19, a decrease of \$675,400. Of the revenue decrease, \$455,928.02, net, is attributed to freight items, which are detailed in full; \$250,000 decrease in passenger revenue is debited to "less business on account of the construction of new highways and the use of motor vehicles," and \$11,900 to miscellaneous, there being offsets in some items. Decrease in operating expenses includes \$118,500, net, in maintenance of way and structures; \$175,000, net, in maintenance of equipment; \$416,600 through decrease in both price and consumption of fuel, station forces, casualties, etc., and so on. The net railway operation income was \$4,973,567.40, or \$205,548.20 above 1927, and the ratio of operating expenses and taxes to operating revenues decreased 1.66 per cent to 71.64 per cent.

Harbison-Walker Officers.

At the annual stockholders' meeting of the Harbison-Walker Refractories Company, Pittsburgh, Pa., the following directors were re-elected: H. W. Croft, Joseph Dilworth, O. M. Reif, J. E. Lewis, Ralph W. Harbison, Nin McQuillen, J. St. C. Brooks, Jr., Raymond Willey, Kenneth Seaver, J. E. MacCloskey, Jr., Richard K. Mellon, J. B. Cullum, John F. Fletcher, B. A. Clements, Arthur E. Braun. The directors elected the following officers: Mr. Croft, chairman; Mr. Lewis, president; Messrs. Reif, McQuillen, Seaver and Willey, vice-presidents; P. R. Hilleman, secretary; W. Forman Bickel, treasurer. G. G. Coolidge is assistant to the president and W. B. Coullie is general sales manager.

Reinforcing the Liberty Bell.

Details of the process of reinforcing the Liberty Bell by placing steel castings at the top and bottom of the yoke, with connecting bolts embedded in the wood, are told in the Iron Age for May 9. The foundry work was done by the Crucible Steel Casting Company, Lansdowne, Pa., and the engineers who developed the plans for reinforcing the yoke and designed the supporting casting were appointed by Howard McClenahan, secretary of the Franklin Institute, Philadelphia.

Wallace Acquires Towsley.

J. D. Wallace & Co., Chicago, manufacturers of portable woodworking machinery, have taken over the John T. Towsley Manufacturing Company, Cincinnati, manufacturer of large woodworking machinery and factory trucks. The present Wallace national sales organization and engineering service will be the basis of a broad expansion program. The Towsley Company will continue to operate under its own name as a separate corporation, a division of J. D. Wallace & Co.

Truscon Purchasing Agent.

Garrett Connors has been newly appointed general purchasing agent for the Truscon Steel Company, Youngstown, Ohio. Mr. Connors formerly was safety director, and also has held the posts of employment manager and general efficiency engineer for the Truscon industries. He has long been closely identified with the purchasing office.

Southern Pacific Lines.

On net railway operating income of \$54,908,101.07 and gross income of \$68,208,759.44, the report of the Southern Pacific Company for 1928 shows net income of transportation system as \$39,028,633.24 and net income of affiliated companies as \$848,024.04 more, both exclusive of inter-company dividends. This aggregate of \$39,876,637.28 was 10.77 per cent above 1927. Average miles of road operated was 13,599.69. According to the report, an increase on the Pacific Lines of \$5,400,000, or 3.53 per cent, in freight revenues "resulted from increased tonnage of nearly all products of agriculture, except oranges and barley; increased tonnage of forest products and increased tonnage of manufactures and miscellaneous commodities, partly offset by a decrease in the tonnage of mineral products. There was a decrease in the orange crop which caused a decrease in revenue of about \$800,000; on the other hand, there was an increase in the apple crop which brought substantial increase in revenue." The increase in revenue from manufactures and miscellaneous commodities was largely the result of an increase in the tonnage of automobiles and parts. On the Texas and Louisiana lines freight revenues increased \$666,000, or 1.26 per cent, due largely to increased tonnage of agricultural products, because of larger crops of cotton, rice, melons and potatoes. There was an increase in the tonnage of automobiles and parts and in brick, cement, tile and other manufactures, due to increased building activities and to generally improved conditions, says the report. These increases, it adds, were partly offset by decrease in tonnage of animal products, in tonnage of forest products. In tonnage of petroleum and gasoline and in iron and steel articles and machinery, due principally to decreased construction of pipe line and oil tank facilities.

Viking Pumps Described.

The Viking Pump Company, Cedar Falls, Iowa, with a plant at Walkerville, Ontario, to handle Canadian trade, describes the Viking as a rotary pump of such simple construction that there are only two moving parts. All valves, springs and complicated mechanism have been eliminated and, because of its positive suction and discharge, a steady, even flow is maintained. Capacities range from two-thirds of a gallon per minute to 1000 gallons per minute, and by connecting them in series almost any desired capacity may be obtained. Viking pumps are said to handle almost any gritless liquid and to move acids, asphalt, brine, milk, cream, liquid foods, syrups, chemicals, drugs, fuel oil, gasoline, lubricating oil, ice-cream mix, mine water, paints, tar, turpentine, wood pulp, plain water, yeast, and so on.

Westinghouse Headquarters.

Offices of the Westinghouse Electric and Manufacturing Company in Pittsburgh, Pa., are now located in the Grant Building, where A. W. Robertson, chairman of the board, also will have quarters. The central district office in Pittsburgh covers West Virginia, Michigan, Ohio, Indiana, Kentucky and Pennsylvania.

Opens Jacksonville Quarters.

The Empire Floor & Wall Tile Company, Inc., New York, with plants at Zanesville, Ohio, and Metuchen, N. J., announces the opening of an office and warehouse in Jacksonville, Fla., for business in Florida, Georgia and Alabama, with H. J. Pilliod in charge. Floor and wall tile items and bathroom accessories will feature the stock.

Bessemer Galvanizing Plant.

Excellent illustrations, suitably explained, are used by the Bessemer Galvanizing Works, Birmingham, Ala., to present in booklet form some idea of its plant and products and its facilities for fabricating as well as galvanizing—zinc coating. Every step in the creation of its finished products is performed in the Birmingham district, says the booklet, the iron being mined there, the steel being rolled and both the galvanizing and fabricating plants being situated there.

Ice Plant for Sale.

An interesting advertisement in this issue announces the prospective sale of the plant, equipment and all assets of the Merchants Cold Storage and Ice Manufacturing Company, Inc., at Richmond, Va., on June 28 at 1 P. M. Information can be obtained from the company. The present population of Richmond is estimated at 203,400 on the basis of 171,000 in the census of 1920.

Trade Literature

Gas Engines.—First edition of its bulletin 782 is used by the Chicago Pneumatic Tool Company, New York, to describe the Chicago pneumatic vertical gas engines, type RHG 75, "developed to meet the demands for a high-grade, highly efficient prime mover that is in accord with the principles of fuel conservation." A four-cycle gas engine of very high thermal efficiency is said to produce a brake horsepower hour on an expenditure of 9500 British thermal units. Illustrations, diagrams and specifications also are given.

Leather Belting.—Useful information of the most practical nature on textile spinning is furnished in a memorandum book distributed by W. W. Fowler, district agent, Southern territory, Greenville, S. C., of the Fisher Leather Belting Company, Inc., Philadelphia, Pa. Constants for finding beats per inch on pickers, carding rules, drafting calculations from weight and constants for cuts per loom are a few of the items covered.

Signals.—The Benjamin Electric Manufacturing Company, Des Plaines, Ill., has published two illustrated booklets on Industrial signals. One is entitled "The Industrial Howler" and devoted principally to the motor-driven howler. The other, entitled "Make Your Signal System Effective," shows a number of specific applications of Benjamin Industrial signals.

Graders.—"When the sun sets, Warcos will have completed a full day's work," says a new folder from the W. A. Riddell Company, Bucyrus, Ohio, successors to the Hadfield-Penfield Steel Company, in describing its models E and ER power graders. Detailed specifications, snow plow specifications, full descriptions, detailed information and illustrations fill the folder.

Construction.—Archer concrete hoisting and distributing systems are described in catalog No. 1026 of the Archer Iron Works, Chicago, Ill., starting with information on Archer steel tower hoists and running through power chute plants, material elevator, and so on. Pictures of various devices in use are given, and other illustrations and specifications.

Modern Garages.—A booklet, "Modern Garages," distributed by the Portland Cement Association, is designed to show what can be accomplished for this type of building through the use of reinforced concrete construction, with particular reference to beauty in design, economy of space in floor layout and savings in construction cost. The illustrations are planned to widen the market for reinforcing steel and reinforced concrete construction.

Roller Sharpener.—Its May bulletin, No. 72-M, is used by the Sullivan Machinery Company, Chicago and New York, to describe the Sullivan roller sharpener for coal cutter bits, a frontispiece showing an equipment with which one man has turned out 1450 perfect bits in two and a half hours. Various advantages attributed to the sharpeners, with diagrams and other illustrations and detailed information, are set forth in the bulletin.

Furnace Cleaner.—No coal will give satisfaction in a dirty heater, says bulletin No. 362 of the B. F. Sturtevant Company, Hyde Park, Boston, Mass., and describes the Sturtevant portable furnace and boiler cleaner in detail, with specifications and equipment. Another bulletin tells coal dealers "how to hold customers," and the two are supplemented by a folder from the Hall-Neal Furnace Company, Indianapolis, Ind.

Elizabethhton Strike Is Ended—Union Not Recognized

Elizabethhton, Tenn., May 25.—[Special.]—By an almost unanimous vote today, the former employes of the Bemberg and Glanzstoff textile mills here decided to return to work, thus ending a strike which was instituted on April 15. While L. Stubbs, organizer for the United Textile Workers of America did not announce the conditions of the settlement, impression prevails that the strikers accepted terms decided in 48 hours of negotiations with the companies. The conference was arranged by Miss Anna Weinstock, a representative of the Federal Department of Labor. In a statement, Miss Weinstock said: "There is to be no discrimination on account of union membership, but the companies may refuse to reemploy any worker considered undesirable. All employes must go through the regular employment channels by application."

Employes not satisfied with conditions, or an employe not re-employed, may appeal to T. L. Wilson of New York, who has joined the company as personnel director and who will act as mediator. "I will deal only with former employes as such, and not with the union as a union," said Dr. Arthur Mothwurf, president of Bemberg and Glanzstoff. About 2000 strikers participated in the meeting at which the vote was taken.

Industrial Peace in Piedmont

Greenville, S. C., May 27.—[Special.]—The strike at the Woodruff plant of the Brandon Corporation here has been settled and after more than eight weeks of idleness the Piedmont section of South Carolina resumes industrial peace. The Brandon operatives returned to work several days ago and the Poinsett operatives also returned. The strikes at Union are over and the Anderson mill at Anderson is now the only plant idle because of strikes.

Virginia Beauties and Attractions

Twenty-two pages of engaging and informative illustrations, with appropriate text, make up the spring number of "Virginia," published by the Virginia

State Chamber of Commerce, Richmond. The distinctive beauty of Cape Henry is shown and "in the spotlight" are varied pictures, including some of the Virginia beaches. Virginia's new battlefield park is shown, Virginia gardens and homes in springtime and "things you should see in Virginia" are among the other attractive features.

Believes Fruit Fly Can Be Eradicated

C. W. Lyons, president of the Lyons Fertilizer Company of Florida, writing to a friend in regard to the rather complete investigation he has made of the Mediterranean fly situation in that state, says:

"I do not wish to minimize the seriousness of this situation, but at the same time—inasmuch as it is national in scope, for the reason that there are many host plants that would harbor the fly in many states, including California and Texas—I believe that by constant effort the fly will be controlled within a reasonable time and finally completely eradicated.

"My basis for this statement is that when I first visited the infected zone with some of the inspectors and had an opportunity to go over these groves, and at a later date visited the same properties and saw them entirely cleaned up, I was made to feel that we would be successful. * * * I was here during the citrus canker fight, and at one time it looked like the canker would wipe out the industry in its entirety, for it not only attacks the fruit, but the tree itself, and I saw many groves where the trees were actually grubbed up and burned. After going through such an experience I am reasonably satisfied we will eradicate the fruit fly. * * *

"If, after the fruit fly is eradicated, it shall have accomplished one thing for the citrus industry, we will indeed be well repaid for our efforts. The particular point in question is this: For years we have allowed our fruit to be hauled promiscuously by trucks all over the Southern States, as well as being shipped in bulk in cars all over the United States. This, of course, is a very serious handicap to the good fruit we ship, as it really means we are placing our culs in competition with good fruit. * * *

"My present opinion is that within the next two years the citrus industry will settle down to a basis of real business, rather than a so-called hobby and playing, as many of the growers have preferred to call it. So the Mediterranean fruit fly may simply be a blessing in disguise."

A Negro Organization Wants to Secure a Property to Be Divided Into Farms for Negroes

Rev. Ad Wimbs of Beulah, Miss., who was for some years connected with a big cotton plantation at Scott, Miss., and who during that time published a well edited, conservative paper for negroes, writes the MANUFACTURERS RECORD:

"I am no longer at Scott. I felt that my chances there were greatly hindered on account of the disastrous flood and then too there was a change in the management of the property. I have not as yet reissued my paper.

"What I want is to get in touch with some public spirited person who desires the uplift of the cotton-making negroes, on reasonable business principles; someone to buy me a farm of sufficient size to cut up in 10 to 20 acre tracts. I want this peopled by the best element of negro cotton toilers. Would want to lease the place for a term of years with option of buying at the end of the lease. This would be a safe investment, and at the same time it would help solve the problem in this section.

"I am enclosing a constitution which I am going to use and hope you will spare the time to read it. You possibly know of some parties who would aid. I am quite sure you or they will never regret it."

Possibly some readers of the MANUFACTURERS RECORD may have property that would be suitable for the purpose desired, and would be willing to investigate Mr. Wimbs and his plan.

CONTRACT LET FOR 110-MILE PIPE LINE

Texas Project Estimated to Involve \$2,700,000 Expenditure

The South Texas Pipe Line Company, a subsidiary of the United Gas Company, Houston, has awarded contract to the Smith Brothers Construction Co., Dallas, for constructing a 16-inch gas line from the producing areas in Bee and Refugio counties to a point near San Antonio, where it will tie into a pipe line supplying San Antonio and vicinity, a distance of about 110 miles. Pipe for the line has been ordered from the Youngstown Sheet & Tube Co., Youngstown, Ohio. The cost of the project is estimated at \$2,750,000.

Laurel Looks to the Future

Laurel, Miss., May 25—[Special.]—An unusual method of "selling" a city, was adopted at a mass meeting of citizens of Laurel, who vision developments on other productive lines when their yellow pine timber crop is harvested. This plan, called the "Smoke Stack Assurance Plan," calls for all interested to advance funds to be used in bringing new industries to replace the saw mills. The fund is to be at the disposal of the industries committee of the Laurel Chamber of Commerce, and its use is to be restricted to the purchase of bonds, or stock, as an inducement to an industry to locate in Laurel, and shall not in any way be used as a gift to any particular industry.

Each depositor will be credited with the amount paid in and will receive its equivalent in stocks or bonds of an industry. If at the end of a 12-month period, the money has not been used, it shall be returned to its depositors, plus 4 per cent interest. The spirit of the meeting was expressed by Guy M. Walker, who stated that "real prosperity will not begin in south Mississippi, until the last stick of yellow pine timber has been cut."

\$2,000,000 Fort Worth Building Let to Contract

Fort Worth, Tex.—General contract has been awarded to H. B. Friedman, local contractor, for the erection of the proposed \$2,000,000 Fair Building here for Jesse H. Jones and John T. Jones, of Houston. The structure will be 18 stories, basement and sub-basement; 198 by 100 feet for the first six floors, of stone and brick construction. It will be equipped with five high speed elevators, with four additional elevators operating from the seventh to the top floor. A refrigerating system will also be installed. The basement and six floors will be occupied by the Fair Department Store, while the space above will be utilized for offices. Wyatt C. Hedrick, Inc., Fort Worth, is the architect.

Estimating on \$650,000 Asheville Post Office

Asheville, N. C.—Contractors estimating on the general contract for the new \$650,000 post office building here, for which bids will be opened June 7 in the office of James A. Wetmore, Acting Supervising Architect of the Treasury Department, Washington, include the following: Murch Bros. Construction Co., St. Louis, Mo.; Charles Weitz's Sons, Des Moines, Iowa; A. C. Samford and Algernon Blair, both of Montgomery, Ala.; Northeastern Construction Co., Winston-Salem, N. C.;

Fleisher Engineering & Construction Co., Chicago, Ill.; Yeager & Sons, Danville, Ill.; Angle-Blackford Co., Greensboro, N. C.; D. J. Phipps, Roanoke, Va.; W. F. Jackson Co., Inc., W. E. Rowan and the J. A. Jones Construction Co., all of Charlotte, N. C.; John W. Cowper Co., Inc., Buffalo, N. Y., and Richmond, Va., and the W. P. Rose Co., Goldsboro, N. C.

The building will occupy a site bounded by Post, Otis and Wall streets and North French Broad avenue, with a frontage on Otis street of 208 feet. It will be three stories and basement, of granite to the first floor line and limestone above, except an interior court and part of the rear elevation which will be of buff brick with stone trim. Plans and specifications were prepared in the office of Mr. Wetmore.

Cotton Mill Industry Awake to Value of Advertising—Biggest Demand for Styled Cotton Indicated

In the first five months of this year fine cottons have been advertised more prominently and extensively than at any other time during the past 25 years, Ernest C. Morse, of the Cotton-Textile Institute, recently told members of the Advertising Club of Boston. "From present indications," said Mr. Morse, "there is no doubt that there will be more advertising in this industry this year than in any other year of its history. With this new record which reflects more progressive merchandising on the part of mills, there is every indication of the biggest demand for styled cottons that the industry has ever seen."

Jones & Laughlin Not to Build Kansas City Plant

Jones & Laughlin Steel Corporation, Pittsburgh, Pa., announce they have acquired no property in Kansas City, are not negotiating for any, or planning any extension of works beyond the Pittsburgh district. A miscellaneous news item published in the MANUFACTURERS RECORD of May 16 erroneously reported the acquisition of a site for a barge building plant in Kansas City. An accurate statement covering the proposed development was published in the Construction News Department of the May 16 issue under Iron and Steel Plants.

Architect for \$400,000 Courthouse

Princeton, W. Va.—The Mercer County Court has commissioned A. B. Mahood, Bluefield, W. Va., to prepare plans and specifications for the new courthouse and jail here for which the county recently voted a bond issue of \$400,000.

\$1,000,000 PLANT FOR FREDE- RICKSBURG

Chemical Enterprise to Be Established by New York Interests

Confirming a report that it will erect a large factory near Fredericksburg, Va., the Sylvania Industrial Corp., New York, advises that it intends to develop and ultimately manufacture some patented chemical specialties, but that plans have not advanced far enough for a definite announcement. City Manager L. J. Houston of Fredericksburg is reported as saying the plant will be built on the Tidewater Trail and will employ about 250 people initially. The site is on the Rappahannock River and will be served by a spur track, for which surveys have already been completed by the Richmond, Fredericksburg & Potomac Railroad Co. It is reported that \$1,000,000 will be invested in the new enterprise.

Grape Growing in Florida

Edgar M. Dunn of Daytona Beach, Fla., in a letter to the MANUFACTURERS RECORD setting forth some of the advantages for the growing of grapes in Florida, says that there are many advantages for grape growing in that state which promise to make Florida an important grape section. Florida grapes, he says, have a great advantage in that they are shipped during May and June and July, while the bulk of grapes shipped to market from other parts of the country are later.

Mr. Dunn quotes Bulletin No. 640 of the United States Government on the Mediterranean Fruit Fly as placing grapes in the class of fruit very seldom attacked by this fly, and quotes the bulletin as saying "they are so little liable to infestation as to be practically immune from attack."

He sends a statement by the Florida Grape Growers, Inc., dated May 20, to the effect that the Casaba grape crop had been disposed of the week before, and that they now expect the two larger crops will all be ripened in time for shipment in June.

Mr. Dunn strongly stresses the progress of grape growing in Florida and the freedom of the grape from the Mediterranean fly menace.

\$1,000,000 Baltimore County Bonds Sold

Towson, Md.—An issue of \$1,000,000 4½ per cent school bonds has been sold by the Baltimore County Commissioners to the First National Securities Corp., Baltimore, affiliated with the First National Bank of that city. The bonds will mature serially from 1930 to 1945, inclusive.

FINANCIAL NEWS

Bond Issues Proposed

Ala., Alabama City—School—City votes June 25 on \$100,000 bonds.

Ala., Hamilton—Water—City votes June 2 on \$18,000 bonds; R. L. Brown, Mayor.

Ala., Anniston—Hospital—City, Sidney J. Reaves, Mayor, voted \$75,000 bonds; election found illegal; hold another election later.

Florida—Florida Inland Navigation Dist., East Coast Canal, Chas. F. Burgman, Chmn., Daytona Beach, plans receiving bids for \$1,887,000 bonds; provide funds to purchase lands for East Coast canal. 8-16-1928

Fla., Belle Glade—Town Council, Pres. Buck, considering \$20,000 bond issue for municipal water works and additional paving.

Fla., Fort Myers—Refunding—City Comm., authorized \$95,000 bond sale.

Fla., Pensacola—Escambia County Bd. of Public Instruction, Wm. Tyler, Supt., receives bids June 18 for \$30,000, 6%, \$1,000 denom. Special Tax School Dist. No. 10, Erent-Goulding, bonds; voted bonds. 5-9

Fla., St. Petersburg—Indebtedness—City voted \$2,357,000 bonds.

Fla., St. Petersburg—City Comm. authorized \$300,000 bond issue against delinquent taxes of 1928 and for repair and maintenance work.

Ga., Columbus—City voted \$1,235,000 bonds; \$250,000, schools; \$400,000, sewers; \$45,000, incinerator; \$260,000, streets; \$150,000, hospital; \$50,000 parks and playgrounds; \$30,000, aviation field; \$30,000, municipal buildings. 2-21

Ga., Lanier—Ellabell-Eldora School Dist., Bryan County, voted \$18,000 bonds; C. C. Patrick, School Trustee.

La., Arcadia—Sewer—City, Bertram F. Barnette, Mayor, receives bids June 7 for \$40,000, 6% Sewerage Dist. No. 1 bonds.

La., Bogalusa—City voted \$350,000 bonds; \$250,000, paving; \$100,000, school; E. R. Cassidy, Mayor. 4-4

La., Franklinton—Washington Parish Franklinton School Dist. votes July 9 on \$125,000, bonds; D. H. Stringfellow, Supt. Parish School Bd. Lately noted vote May 14. 5-9

Md., Chestertown—Kent County Commrs., Samuel J. Johnson, Pres., receive bids June 18 for \$1,000,000, 4 1/4% bonds; \$900,000 Public Road; \$100,000, Public Slag or Stone Road. 5-23

Md., Rockville—Montgomery County Commrs., receive bids June 25 for \$697,000 refunding bonds.

Md., Salisbury—School—Wicomico County, Rachel W. Morris, Clk., voted \$300,000 bonds. 5-16

Miss., Indianola—School—City votes June 7 on \$100,000 bonds.

Miss., Meridian—Road—Lauderdale County votes June 4 on \$800,000 bonds; Lee Branham, Engr.

Mo., Independence—Hospital—Jackson County Court receives bids June 17 for \$500,000, 4 1/2%, \$500 denom. bonds. 5-17-1928

Mo., Kirkwood—Kirkwood School Dist. voted \$250,000 bonds; W. C. Brown, Chmn., Bd. of Education. 5-9

Mo., Neosho—Neosho School Dist. voted \$140,000 bonds.

Mo., Springfield—City, C. A. Dickerson, Clk., considering \$750,000 bond election for sewers and flood control. 3-21

N. C., Murphy—Cherokee County votes June 11 on \$35,000 hospital bonds.

N. C., Winston-Salem—Forsyth County Drainage Comm., Dist. No. 2, A. E. Hire, Chmn., plans selling \$40,000, 6% Muddy Creek Canal bonds.

Okla., Maud—Water—City votes June 4 on \$75,000 bonds.

Okla., Newkirk—City, Roy H. Hill, Mayor, voted \$10,000 stock pavilion bonds. 4-25

Okla., Oklahoma City—Airport—City, E. M. Fry, Mgr., considering bond election; W. W. Small, City Engr.

S. C., Charleston—School Dist. No. 10, St. Andrews Parish, votes June 5 on \$74,000 bonds.

S. C., Greenville—Greenville School Dist., E. M. Blythe, Chmn., voted \$700,000 bonds. 5-9

S. C., Jonesville—School—City voted bonds.

Tenn., Jamestown—Funding—Fentress County, C. A. Williams, Clk., receives bids June 1 for \$75,000, 5%, \$1,000 denom. coupon bonds; H. N. Wright, County Judge.

Tenn., Johnson City—City voted \$510,000 bonds; \$300,000, school; \$125,000, water; \$25,000, sewer; \$60,000, fire dept. stations. 5-2, 5-16

Tenn., Lookout Mountain—Town voted \$150,000 bonds; \$100,000, indebtedness; \$50,000, highway and other improvements; J. B. Pound, Mayor. 5-2

Tenn., Memphis—City plans \$3,650,000 bond election this year; \$1,350,000, school; \$850,000, sewer; \$850,000, all purposes; \$100,000, Highland sewers; \$300,000, fire department; \$200,000, hospital; Will B. Fowler, City Engr.

Tenn., Paris—School—Henry County defeated \$90,000 bond issue. 4-18

Tex., Beaumont—City, J. W. Anderson, Mgr., votes July 8 on \$275,000 bonds; \$175,000, fair ground improvement; \$100,000, Tyrrell Park; R. C. Black, City Engr. 5-16

Tex., Beaumont—Improvement—City, J. W. Anderson, Mgr., rejected bids for \$1,000,000, 4 1/2% bonds; receives bids June 4 for bonds; R. C. Black, City Engr. Lately noted bids May 21. 5-16

Tex., Brownfield—Paving—City voted \$60,000 bonds. 4-25

Tex., Crockett—Road—Houston County, Grapeland Precinct, voted \$80,000 bonds; plans selling bonds.

Tex., Fluvanna—Fluvanna Consolidated School Dist., Scurry County, plans \$50,000 bond election.

Tex., Fort Worth—City, O. E. Carr, Mgr., votes June 25 on \$3,000,000 bonds; \$2,000,000, street; \$500,000, airport; \$500,000, central fire station and signal station; D. L. Lewis, City Engr. 5-16

Tex., Fredericksburg—Road—Gillespie County voted \$300,000 bonds; Herman Useiner, County Judge. 5-16

Tex., Harrold—School—City voted \$60,000 bonds.

Tex., Jacksboro—Bd. of Education plans \$125,000 bond election.

Tex., Laredo—School—City, Albert Martin, Mayor, votes June 15 on \$225,000 bonds. 5-23

Tex., Liberty—Road—Liberty County, C. R. Wilson, Court Judge, defeated \$2,500,000 bond issue. 4-18

Tex., Littlefield—City, J. W. Ratekin, Sec., votes June 23 on \$60,000 bonds; \$10,000, paving; \$50,000, city hall.

Tex., Turkey—Road—Hall County, Turkey Precinct, plans bond election.

Tex., Palo Pinto—Road—Palo Pinto County considering \$1,700,000 bond election.

Tex., San Antonio—School—City, C. M. Chambers, Mayor, considering \$5,000,000 bond election. 5-2

Tex., Sulphur Springs—Road—Hopkins County Commrs. Court considering \$1,500,000 bond election.

Tex., Tyler—School—City votes June 14 on \$325,000 bonds.

Tex., Vidor—School—City voted \$50,000 bonds. 5-9, under Tex., Orange.

Tex., Wichita Falls—County Line Common School Dist., Wichita County, votes June 8 on \$7,500 bonds; Burl Bryant, County School Supt.

Va., Hopewell—City, Roy S. Braden, Mgr., votes June 18 on \$750,000 bonds; \$550,000, street; \$200,000, parks and playgrounds. 5-16

Va., Luray—School—Luray Magisterial Dist., Page County, voted \$150,000 bonds; Hiriam W. Bertram, Judge of County Court. 4-25

W. Va., Fairmont—City, Bd. of Directors, J. Clyde Morris, Dir., considering \$100,000 bond election, to install automatic fire alarm system.

W. Va., Beckley—Road—Raleigh County, Trap Hill Road Dist., votes June 8 on \$125,000 bonds.

W. Va., Charleston—Charleston Independent School Dist. voted \$750,000 bonds. 5-9

Bond Issues Sold

Ala., Boaz—Street—City, W. W. Creel, Mayor, sold \$18,000 bonds to Ward, Sterne & Co., Birmingham.

Ala., Mobile—Street Lighting System—City, S. M. Hendrix, Clk., sold \$175,000, 5%, \$1000 denom. bonds jointly to Caldwell & Co., Nashville, Tenn., and Marx & Co., Birmingham, at par, accrued interest and \$500 premium.

Ark., Clarksville—School Bd. sold \$35,000 bonds to Bankers' Trust Co., Little Rock; A. N. Hannah, Sec. 5-9

Ark., Conway—City sold \$50,000, 5 1/4%, bonds to W. B. Worthen Co., Little Rock, at 99.77.

Ark., Jonesboro—City sold 5 1/4% bonds to American Trust Co., and Bank of Jonesboro, both Jonesboro.

Ark., Lonoake—Comms. Lonoake Water Works Improvement Dist. No. 1, W. W. McCrary, Chmn., sold \$68,000, 5%, \$500 and \$1,000 denom. bonds to American Southern Trust Co., Little Rock, 104. 5-9

Ark., Lonoake—Comms. Lonoake Sewer Dist. No. 1, W. W. McCrary, Chmn., sold \$58,500, 5% \$100, \$500, and \$1,000 denom. bonds to Brown-Crummer, Wichita, Kan., and Bankers Trust Co., Little Rock, 104.

Fla., Palm Beach—General Improvement—Town, J. Trevett Lockwood, Mgr., reported, sold \$450,000 bonds to First National Bank, Palm Beach. 5-16

La., Franklinton—Washington Parish School Bd., D. H. Stringfellow, Supt., sold \$20,000 Enon Dist. School bonds to Washington Bank & Trust Co., Franklinton. 5-9

La., Ville Platte—Bd. of Comms. Reddell Gravity Drainage Dist. No. 6, Evangeline Parish, J. Cleveland Fruge, Sec., sold \$15,000, 6%, \$200 denom. Series "A" bonds to J. Franklin Schell, Washington, La., par, accrued interest and \$268 premium. 5-9

La., Ville Platte—Bd. of Comms. L'Anse Grise Gravity Drainage Dist. No. 11, Evangeline Parish, J. Cleveland Fruge, Sec., sold \$9000, 6%, \$1000 denom. Series "A" bonds to J. Franklin Schell, Washington, La., par, accrued interest and \$158 premium. 5-9

Md., Salisbury—City, E. J. C. Parsons, Clk., sold \$30,000, 4 1/2% fire dept. and equipment bonds to Baker, Watts & Co., Baltimore, 99.63. 5-2

Md., Towson—School—Baltimore County Comms. John R. Haut, Ch. Clk., sold \$1,000,000, 4 1/2%, \$1,000 denom. bonds to First National Securities Corp., Baltimore, at 100-.387. 4-25

Mo., Linneus—Street—City, R. L. Perkins, Clk., sold \$25,000, 5 1/4%, \$1,000 denom. bonds to Stern Brothers & Co., 1009 Baltimore Ave., Kansas City, par. 5-23

Mo., Neosho—Neosho School Dist. No. 57, H. E. Arcularius, Sec., sold \$140,000 bonds to Prescott, Wright Snider Co., Kansas City, Mo.

N. C., Beaufort—Funding—Carteret County, R. A. Wallace, Register of Deeds, sold \$515,000, 6%, \$1,000 denom. bonds to Walter, Woody & Heimerdinger, Cincinnati, at par and accrued interest.

N. C., Raleigh—Committee of Raleigh Township sold \$500,000, 5% school bonds to Citizens National Bank, Raleigh, \$523,045. 5-2

N. C., Statesville—City, Bd. of Aldermen, N. Miles, Clk., sold \$320,000, 5 1/4% bonds to Braun Bosworth & Co., and Stranahan, Harris & Oatis, Inc., both Toledo, at \$321,975. 5-9

Okl., Bartlesville—School—Bd. of Education sold \$200,000 bonds to R. J. Edwards Co., Inc., Oklahoma City.

Okl., Hobart—Kiowa County Consolidated School Dist. No. 8 sold \$21,200, 5 and 5 1/4% bonds to John C. DeLarge, El Reno, par and \$5 premium.

S. C., Aiken—Highway—Aiken County Comms. O. R. Cofer, Clk., sold \$50,000, 5% coupon bonds to Well, Roth & Irving Co., Cincinnati, at par.

S. C., Columbia—Auditorium—Richland County Comms., W. C. Thomas, Clk., sold \$300,000, 4 3/4% Columbia Township bonds to South Charleston National Bank, of Columbia, Charleston and Greenville, at \$301,079. 5-16

S. C., Laurens—Highway—Laurens County Bd. of Supr., John D. W. Watts, Supr., sold \$230,000, 5 1/4% coupon bonds to Stranahan, Harris & Oatis, Inc., Toledo, \$1000 premium. 5-9

Tenn., Covington—Tipton County Bd. of Education, J. J. Mann, Chmn., and Supt. of Public Instruction, sold \$100,000, 5 1/4% bonds

(Continued on page 98)

Please pass the buck...



"**I**F the manufacturer gives his word of honor that the colors are fast, should any gentlemanly buyer doubt him? Anyway, nine out of ten

women don't wash goods properly and the other one uses a laundry. What's a complaint now and then? If it comes to a showdown, the adjustments we can't talk the customer out of we can throw back on the manufacturer. Testing is the manufacturer's job anyhow. . . ."

However, when the consumer tries out the goods on her washing machine, she issues no reports—so nobody's the wiser.

Not being wiser, retailers and manufacturers go on making and trying to sell her something for what it isn't. When business slows down, goods are marked down. But women seem to want something more than just low prices. After all, there's no substitute for honest value.

Stores that put it up to the laboratory instead of the consumer to determine color fastness know that—

Everybody gets more for their money in
FAST-DYED FABRICS

Pioneer American Vat Dye Manufacturers



E. I. DU PONT DE NEMOURS & COMPANY, INCORPORATED, DYESTUFFS DEPARTMENT, WILMINGTON, DELAWARE

FINANCIAL NEWS

(Continued from page 96)

to Joseph, Hutton & Estes, Nashville, and Little, Wooten & Co., Jackson, Tenn., par, accrued interest, \$1080 premium and expenses. 4-11

Tenn., Knoxville—Refunding—City, Neil Bass, Mgr., sold \$800,000 4 1/4% \$1000 denom. bonds to Eldredge & Co., New York City, at \$790,800. 4-11

Tenn., Mountain City—Water—City sold \$40,000 bonds to Little, Wooten & Co., Jackson, Tenn. 4-18

Tex., Austin—Improvement—City, Adam R. Johnson, Mgr., sold \$1,000,000 bonds to Ames, Emerich & Co., Chicago, and Austin National Bank, Austin, at \$1,014,140. 4-18

Tex., Boling—J. R. Phillips Investment Co., Houston, purchased \$165,000 Boling Independent School Dist., Wharton County, 5-23

Tex., Brownsville—Fred E. Starck, Sec., Brownsville Independent School Dist., sold \$75,000 Dist. bonds to State of Texas, at par and accrued interest. 4-18

Tex., Eastland—G. G. Hazel, Sec., School Bd., Eastland Independent School Dist., sold \$75,000 bonds to Brown-Crummer, Wichita, Kansas, at par and accrued interest. 4-18

Tex., Portland—San Patricio County Permanent School Fund, H. T. Beackworth, County Supt., Sinton, purchased \$18,000 Portland and Ingleside Common School Dist. bonds. 4-18

Tex., Van Horn—Road—Culberson County, R. Durrill, County Judge, sold \$35,000 5 1/2% bonds to Crosby & Co., San Antonio, at par and expenses. 4-25

Building and Loan Associations

W. Va., Charleston—Industrial Savings & Loan Assn., capital \$50,000, chartered; David C. Howard, Kanawha Bk. Bldg.

New Financial Corporations

Fla., Brooksville—First National Bank, capital \$50,000, chartered; F. B. Coolger, Pres.; B. H. Robison, Cashier.

La., Alexandria—Guardian Finance Co., Inc., 922 Fourth St., chartered; Sam Haas, Pres.; B. F. Thompson, Chmn. of Bd.

Md., Baltimore—Somerset Securities Co., 13 South St., chartered; William L. Marbury, Jr.

Mo., St. Louis—Mercantile-Commerce Bank & Trust Co., opened; John G. Lonsdale, Pres.; George W. Wilson, Chmn. of Bd.; capital, surplus and undivided profits, \$17,500,000; formed by merger of National Bank of Commerce, and Mercantile Trust Co. 5-23

Okla., Miami—First National Bank, \$5,000,000 resources, organized; J. F. Robinson, Chmn. of Bd.; G. L. Coleman, Pres.; formed by merger of Ottawa County National Bank, G. L. Coleman, Pres., and First National Bank, M. R. Tidwell, Pres.

Security National Bank, Charles A. Gunter, Pres., Oklahoma City, Okla., plans increasing capital, \$750,000 to \$1,000,000, and create

subsidiary organization, Security National Corp., with \$100,000 capital.

Calhoun County Bank, W. T. W. Dye, Pres., Grantsville, W. Va., plans increasing capital \$30,000 to \$80,000.

Stein Bros. and Boyce, South Calvert St., Baltimore, Md., opened branch office at 513 Atlanta National Bank Bldg., Atlanta, Ga., with Campbell McD. Krenson, in charge.

City National Bank, Wm. S. Shields, Pres., Knoxville, Tenn., increased capital, \$600,000 to \$1,000,000.

Book Reviews

English and Science, by Philip B. McDonald. New York: D. Van Nostrand Company, Inc. Cloth. Pp. 192. \$2.

No more important and interesting book in its field, nor any more needed at this time, has come to hand of late than this compact, straightforward lesson on clear thinking and concise speaking and writing. Opening with a word on the importance of written records, Professor McDonald says: "A written report is a record of observations taken or work accomplished, usually made by an investigator to an employer or other officials." The usual, average report "requires some personal judgment and special knowledge," and also—a fact not appreciated or even realized—"its literary qualities, although not necessarily preeminent, should be a credit to the writer." But, in these days, much of the poor English in evidence is due to "lack of imagination on the part of students to realize the importance of English." Even worse: "To many students in schools and colleges the courses in English appear to be less practical than courses teaching hard facts and the immediate tricks of making a living. They tend to neglect or slight the opportunities to perfect their English, because they do not see the direct application of it." To which one may venture to add an observation that all instructors are not as able and well qualified as Professor McDonald, through his work, proves himself to be. One recalls the dictum of a Chicago public school official that "It is me" is "good grammar." In schools and higher institutions of education laxity in teaching English, and the resultant ignorance, are really appalling. So it is that "students do not realize the extent to which clearness and precision in language bring clearness and precision in thinking." But, is not the instruction end to be debited for the shortcomings of the pupils and their lack of interest? The rays of Professor McDonald's beacon shine out through sixteen chapters, on writing and presenting a technical paper, on reports in formal, third-

person style, reports in informal, first-person style; good letters and bad, correct language, the basis of all writing, and so on, and culminate in suggested readings about invention. One wishes one had space in which to treat at length Professor McDonald's contribution—it well deserves thoughtful and careful study and consideration.

Labor Management, by J. D. Hackett. New York: D. Appleton & Company. Cloth. Pp. 681. \$5.

Described as "a book of methods covering the whole range of employer-employee relationships," and with an introduction by Sam A. Lewisohn, president of the American Management Association, this book purports to tell "how every detail of personnel administration is handled by progressive firms"—which, taken by and large, might be considered a pretty large achievement should anyone ever attain it. The author discusses no less than thirty-nine major subjects, some with subheads ranging in number from two to ten. From "Industry and Labor," the treatise proceeds to "The Management of Labor," "The Employment Department," "The Labor Supply," and takes up selection of workers, interviewing procedure, and so on. For instance, from a chart in relation to the interviewing procedure, one gathers that at the entrance must be a door man, to give out a waiting room card, numbered, which the applicant takes to the waiting room; there, the aspirant for a job is met by an interviewer or assistant employment manager, who after general inspection, observation and preliminary interview accepts or rejects, the "duty to be performed by the applicant" at this point being to "wait till number is called; read handbook to ascertain conditions of employment." The next scene is the record room, where a record clerk completes the application blank and secures references which the applicant submits. "Place, interviewing room; official, interviewer; duty of official, specific examination: (1) Interrogation; (2) job analysis; (3) application form secures interest by stating advantages; makes tests: (1) Physical; (2) mental; applicant gets verbal information as to wages and other working conditions other than those in the handbook." Lack of space prevents reproduction of this in chart form. The next stop is the Medical room, where the doctor takes a hand and the applicant "strips for examination." Finally, survivors drift into the employment office, where the lucky ones are given their jobs and "get badge and equipment." To drop into the vernacular, it is "some" book.

AT YOUR SERVICE IN BALTIMORE



MEMBER FEDERAL RESERVE SYSTEM